TGTCAACACA GCTGGCTGGA TGATTGGGAC TTTAAAACGA CCCTCTTTCA GGTGGATTCA 120

| | GAGACCTGTC | CTGTATATAA | CAGCACTGTA | GCAATAAACG | TGACATTTTA | TAACGAAA | 178 |
|----|---------------|-------------|-------------|--------------------|------------------|--------------------------|-----|
| 5 | SEQ ID NO: | | | | | | |
| | SEQUENCE LE | | | | | | |
| | - | PE:nucleic | acid | | | | |
| | TOPOLOGY: 1 i | | | | | | |
| 10 | CLONE: HUNGS | | | | | | |
| | SEQUENCE DE | | 00000001010 | TC 1 CC 1 CCCT | NTTCLCLCCT | TOCACOCOAC. | 60 |
| | | | | • | | TGGACCCCAG GTGTGAAGTG | |
| | | | | | | TCAGGATGGC | |
| 15 | | | | | | GGAAGCCAGA | |
| | | | | | | GGCACGTCGT | |
| | | | TGGAAGGAGA | | ducchorder | ddcacdicai | 332 |
| | NUNCHTOOM | IMMINITI | Idonnodnun | nn. | | | 002 |
| 20 | SEQ ID NO:3 | 3747 | | | | | |
| 20 | SEQUENCE LE | | | | | | |
| | SEQUENCE TY | PE:nucleic | acid | | | | |
| | TOPOLOGY: 1 i | near | | | | | |
| | CLONE: HUMGS | 304406 | | | | | |
| 25 | SEQUENCE DE | SCRIPTION: | | | | | |
| | GATCTNNATA | CTGTGAATAG | CAGAATGTAC | AGATGAAGAA | TATTAAAATN | AGGGGCGTCC | 60 |
| | ACTCCAAAAC | ATATCACCAG | AGTGACAACT | TCAGCCCTCA | GCCTCTGCAA | TCCATATATA | 120 |
| | TNCTGGTCTT | GGGAGTCCAT | AGAATACTGT | TTCCTTCTAA | TAAAGGTTTC | AAACAAA | 177 |
| 30 | | | | | | | |
| | SEQ ID NO:3 | | | | | | |
| | SEQUENCE LE | | | | | | |
| | | (PE:nucleic | acid | | | | |
| 35 | TOPOLOGY: 1 i | | | | | | |
| | CLONE: HUMGS | | | | | | |
| | SEQUENCE DE | | ATTATACATT | ተለጥተለጥተርጥ ህ | ተ ርተርተርተር | ATGTACTGTG | 60 |
| • | | _ | | | | ATNTTGACAA | |
| 40 | | | | | | AAAAGGGATT | |
| | AATAAA | CHAITIIA | AVVVVIVVO | NUNITIANIA | TITALLAMAA | AMMOUNTI | 186 |
| | MIMM | | | | | | |
| | SEQ ID NO:3 | 3749 | | | | | |
| 45 | SEQUENCE LE | ENGTH: 175 | | | | • | |
| 40 | SEQUENCE TY | YPE:nucleic | acid | | | | |
| | TOPOLOGY: 1 i | inear | | | | | |
| | CLONE: HUMGS | | | | | | |
| 0. | SEQUENCE DE | ESCRIPTION: | | | | | |
| 50 | | | | | | CTGTTTGTTT | |
| | TOOTATOOAT | ACATATCCCT | ATCATALAGT | TTATCAATTT | CCCACTTAAC | ACCAGAACTA | 120 |

| | ATAAGATGAA AGAGTTGTAA | CAATATACTC | TAATAAAAGT | NATTTAAAAT | GTAAA | 175 |
|----|-----------------------|------------|------------|------------|------------|-----|
| | SEQ ID NO:3750 | | | | | |
| 5 | SEQUENCE LENGTH: 172 | | | | | |
| | SEQUENCE TYPE:nucleic | acid | | | | |
| | TOPOLOGY: linear | | | | | |
| | CLONE: HUMGS04409 | | | · | | |
| 10 | SEQUENCE DESCRIPTION: | | | | | |
| | GATCAACAAT GAGCAGAAAC | ATCATCAGTC | CTTCCCAAGG | ACCATGGCGT | TTAATGTCTT | 60 |
| | GGGCACCCCT TGGAAATCAC | | | | | 120 |
| | AGACCTACTT TNCAACTGAG | TAAGAAGGTC | ATTGTGCCCN | CTGCATTNNN | NN | 172 |
| 15 | SEQ ID NO:3751 | | | | | |
| | SEQUENCE LENGTH: 107 | | | | | |
| | SEQUENCE TYPE:nucleic | acid | | | | |
| | TOPOLOGY:linear | | | | | |
| 20 | CLONE: HUMGS04410 | | | | | |
| | SEQUENCE DESCRIPTION: | | | | | |
| | GATCAAAAAA TGTTTATNCT | | | | TNAGGTGTGC | |
| | TACAGGAATT CAGATACAAT | AAGTTGCATA | TAAAACCCGA | CCTCANN | | 107 |
| 25 | SEQ ID NO:3752 | | | | | |
| | SEQUENCE LENGTH: 169 | | | | | |
| | SEQUENCE TYPE:nucleic | acid | | | | |
| | TOPOLOGY: linear | | | | | |
| 30 | CLONE: HUMGS04411 | | | | | |
| | SEQUENCE DESCRIPTION: | | | | | |
| | GATCTGACCA ACAAGGCCAC | AGGAAAATTA | ATAGCACAAG | GAAGACACAC | AAAACACCTG | 60 |
| | GGAAACTGAG AGAACAGCAG | | | | CAAGTATAGA | |
| 35 | TTTGACTCAA ACAATTGTAA | TTTTTGAAAT | AAACTAGCAA | AACCAGAAA | | 169 |
| | SEQ ID NO:3753 | | | | | |
| | SEQUENCE LENGTH: 167 | | | | | |
| | SEQUENCE TYPE:nucleic | acid | | | | |
| 40 | TOPOLOGY: linear | | | | | |
| | CLONE: HUMGS04412 | | | | | |
| | SEQUENCE DESCRIPTION: | | | | | |
| | GATCTNCTTG GCCAGCAGGA | | | | | |
| 45 | NTGCGGCGTC CTCAAGCAGG | | | | TCCAGTTGTC | |
| | TTGAGGGTCC GGATGGGCTC | AGGTAATAAA | GAAACGGAAG | CAGCAAA | | 167 |
| | SEQ ID NO:3754 | | | | | |
| | SEQUENCE LENGTH: 168 | | | | | |
| 50 | SEQUENCE TYPE:nucleic | acid | | | | |
| | TOPOLOGY:linear | | | | | |

| | CLONE: HUNGSO4414 | | | | | |
|----|--|------------|------------|-------------|------------|-----|
| | SEQUENCE DESCRIPTION: | | | | 00.00.000 | |
| 5 | GATCTGGGCT GTGGGGCCCT | | | | | |
| • | GGAAAACAGA CGGGTCTGAG | | | | GACTICAATG | |
| | TGTGTATTTG TGTAAATGAG | TAAAACATTT | TATTICITII | TAGGTAAA | | 168 |
| | SEQ ID NO: 3755 | | | | | |
| 10 | SEQUENCE LENGTH: 162 | | | | | |
| | SEQUENCE TYPE: nucleic | acid | | | | |
| • | TOPOLOGY:linear | | | • | | |
| • | CLONE: HUMGS04415 | | | | | |
| 15 | SEQUENCE DESCRIPTION: | | | | | |
| | GATCTATGAT TTATNATGTC | | | | | |
| | GTCTCTGAAG TCATTTGTGA | | | | • | |
| | ATAATTGAAA ATTAAAAGTA | ACACATTTTT | CTGAAATGTA | AA · | | 162 |
| 20 | SEQ ID NO:3756 | | • | | | |
| | SEQUENCE LENGTH: 161 | • | · | | | |
| | SEQUENCE TYPE: nucleic | acid | | • | • | |
| | TOPOLOGY:linear | | | | | |
| 25 | CLONE: HUMGS04416 | | | • | | |
| | SEQUENCE DESCRIPTION: | | | | | |
| | GATCAAAACA TAATTGTTTT | | | | | |
| | TCTGGAAAAG TTTCACAGTG | | | | CGAATTCTAC | |
| | CAGTGTAACC TTTTTNNTAA | ATAAACAATA | GTTTTNTCAA | A | | 161 |
| 30 | | | | i | | |
| | SEQ ID NO:3757 | | | | | |
| | SEQUENCE LENGTH: 160 | | | | | |
| | SEQUENCE TYPE:nucleic | acid | | | | |
| 35 | TOPOLOGY: linear | | | | | |
| | CLONE: HUMGS04417 | | | | • | |
| | SEQUENCE DESCRIPTION: | | 0000001500 | CONVINTERCO | CNCCACCCTA | 60 |
| | GATCTCAAGA AGCCCCACAT GGTCCTGGGG CACTGTGGGC | | | | | |
| 40 | ACGTACGTGG TGTGAAATAA | | | | derialidie | 160 |
| 40 | ACGIACGIGG IGIGAAAIAA | AGCCCAAGCA | CINUNIUMAA | | | 100 |
| | SEQ ID NO:3758 | | | | | |
| | SEQUENCE LENGTH: 160 | | | | | |
| 45 | SEQUENCE TYPE: nucleic | acid | | | | |
| | TOPOLOGY: linear | | | | | |
| | CLONE: HUMGS04418 | | | | | |
| | SEQUENCE DESCRIPTION: | | | | | • |
| • | GATCCTGGGT GACTTTGGGT | | | | | |
| 50 | ACTAACACTG TGCACTGTCT | | | | CTCATGTTAC | |
| | TGGGTTTGTA AATGAATAAA | CACATTTTAA | CTACTCTAAA | | | 160 |

| 5 | SEQ ID NO:3759 SEQUENCE LENGTH:158 SEQUENCE TYPE:nucleic TOPOLOGY:linear CLONE:HUMGS04419 SEQUENCE DESCRIPTION: | acid | | | | |
|-----------|---|--------------------------|--------------------------|--------------------------|------------|------------------|
| 10 | GATCAATAAG AAGANCCTAG CAATAGTTGT TTTCCCAGTN AGTTGTTNCC AATACAATAA | ATNCAAAGCA | GCTTTCTATA | | | |
| | SEQ ID NO:3760 SEQUENCE LENGTH:158 SEQUENCE TYPE:nucleic TOPOLOGY:linear CLONE:HUMGS04420 | acid | | | | |
| 20 | SEQUENCE DESCRIPTION: GATCAGATTT GTAATTTNCC TCTAGTTCCA ATTGTNACAG AGTGAAAAGA GAATAANCAC | AAGTNCTCTG | CCCATCCGCA | | | 60 120 158 |
| 25 | SEQ ID NO:3761 SEQUENCE LENGTH:290 SEQUENCE TYPE:nucleic TOPOLOGY:linear | acid | | | | |
| 30 | CLONE:HUMGSO4421 SEQUENCE DESCRIPTION: GATCTGTATG GTACTATAAA GCCAAAAATG TATAAAGAGC | | | | | 60 |
| 35 | TTCTAAAATA ATAGNGTTAG TATACATCCT GTAAAACCTA GTGCTTGGNG TACATNNTGG | AGTTCCTTTT ATAAAAGCCA | GAGTAATTAT CTCCATCTTT | TTTTAAGGAC NGGTAACCAT | TATTGCCAAA | 180 |
| 40 . | SEQ ID NO:3762 SEQUENCE LENGTH:158 SEQUENCE TYPE:nucleic TOPOLOGY:linear CLONE:HUMGSO4422 | acid | | · | | |
| 45 | SEQUENCE DESCRIPTION: GATCCCACCC TCTNTCCCAC GGCTGACCTG GCATTGGGAG TGAAGGATTC CTTTTNAAA | AGGGAGGGAG | GAAGGAAGGG | | | |
| 50 | SEQ ID NO:3763 | | | | | |

| 5 | SEQUENCE TYPE:nucleic TOPOLOGY:linear CLONE:HUMGSO4423 SEQUENCE DESCRIPTION: | acid | | | | |
|----|---|------------|------------|------------|------------|------------------|
| | GATCCAAGTC CCCTGCCTGG CCCTTGTNAT GGACCATGGT TCATTCTAAC AGAATAAACC | CGTGAGGAAG | GGCTCATGCC | | | 60 120 157 |
| 10 | SEQ ID NO:3764 SEQUENCE LENGTH:157 SEQUENCE TYPE:nucleic TOPOLOGY:linear | acid | | | | |
| 15 | CLONE:HUMGS04424 SEQUENCE DESCRIPTION: GATCATTITN CATCTGINCA | TAGCGTTTCT | NCAGAAGGAA | CAGTAGTCTC | AAATCTTTCC | 60 |
| 20 | TCATAATGAT AACAAAATGC GTCACTGATA TACTTTATTA | TCTTGCATGA | TTTTNTAACA | | | |
| 25 | SEQ ID NO:3765 SEQUENCE LENGTH:161 SEQUENCE TYPE:nucleic TOPOLOGY:linear CLONE:HUMGS04425 SEQUENCE DESCRIPTION: | acid | | | | |
| 30 | GATCGTGTGT TGCCATTTNG CTTTCCCAAA CCCTTCGGTA ATTCTCCTCT CCCAAATAAA | TTGTNCAAAG | AACCCCCCTC | CCCAAGGAAG | | 60 120 161 |
| 35 | SEQ ID NO:3766 SEQUENCE LENGTH:156 SEQUENCE TYPE:nucleic TOPOLOGY:linear CLONE:HUMGSO4426 | acid | | | | |
| 40 | SEQUENCE DESCRIPTION: GATCTTGAGG TTGTTTGATG GGTACATTGC AGTTTTTTT ATCTGACAGC ATTAAATATT | TTNAAATTTA | AAAATTTCTG | | | 60 120 156 |
| 45 | SEQ ID NO:3767 SEQUENCE LENGTH:155 SEQUENCE TYPE:nucleic TOPOLOGY:linear | acid | | | | |
| 50 | CLONE: HUMGSO4427 SEQUENCE DESCRIPTION: GATCCGCAAG AACAAGTACC | GCCCGACCTG | CGCNGGCAGC | CATCCGCAGG | CCAGCGCATC | 60 |

| | CTGCGACAGA AGCCTGTAAT TGCCCAGAGA ATAAAGCAGC | | | CACCAAGAGT | CCTGAGCCCC | 120 155 |
|----|--|------------|------------|------------|------------|------------|
| 5 | SEQ ID NO:3768 SEQUENCE LENGTH:155 SEQUENCE TYPE:nucleic TOPOLOGY:linear | acid | | | | |
| 10 | CLONE: HUMGSO4428 SEQUENCE DESCRIPTION: GATCCCAAAA CATCATNAGG | CATTTTNAAG | TTGGTCACGT | CGCAAGTCCG | ATATCACAAC | 60 |
| | TTAATTGTAA AAGGAGGGAA CTTTTTAACA ATAAAATCCC | TCTGGTTTTG | TNACTTGGCA | | | |
| 15 | | | | | | |
| | SEQ ID NO:3769 SEQUENCE LENGTH:155 | ., | | | | |
| 20 | SEQUENCE TYPE:nucleic TOPOLOGY:linear CLONE:HUMGSO4429 | acid | | | | |
| | SEQUENCE DESCRIPTION: GATCTATTTG ATAATTTTNT | GGGTTTTTTG | AAGAATTAAT | GAGCATGTAC | ATAGAAATAG | 60 |
| 05 | TGACTGCTTG ANTACTGTAT | | | | | |
| 25 | TNAGNGTATA ATAAAACACA | GATGTGAGTT | GTAAA | | | 155 |
| | SEQ ID NO:3770 | | | | | |
| 30 | SEQUENCE LENGTH: 153 SEQUENCE TYPE: nucleic | : 4 | | | | |
| | TOPOLOGY: linear | aciu | | | | |
| | CLONE: HUNGS04430 | | | | | |
| | SEQUENCE DESCRIPTION: | | | | | |
| 35 | GATCGGCACA AGATGCTCAG TGGCTGCCAG CTTCCAGGCT | | | | | 60 |
| | GTCTTCCCTT TAAAAGCCTG | | | 1010001100 | CICUTICON | 153 |
| 40 | SEQ ID NO:3771 | | | | | |
| 40 | SEQUENCE LENGTH: 153 SEQUENCE TYPE: nucleic | anid | | | | |
| | TOPOLOGY: linear | aciu | | | | |
| | CLONE: HUMGS04431 | | | | | |
| 45 | SEQUENCE DESCRIPTION: | | | | | |
| | GATCTGAAGT GTGAGTAGAA TATGCATGTA GAGTTTAAAG | | | | | 120 |
| | AAGCATGTTA TAATATAATG | | | IIIIAAIAII | TIGITIONA | 153 |
| 50 | SEQ ID NO:3772 | | | | | |
| | SEQUENCE LENGTH: 152 | | | | | |

| | SEQUENCE TYPE:nucleic | | | | | |
|----|------------------------|------------|------------|------------|------------|-----|
| | | acid | | | | |
| | TOPOLOGY: linear | | | | | |
| _ | CLONE: HUMGS04432 | | | | | |
| 5 | SEQUENCE DESCRIPTION: | | | | | |
| | GATCTGGNAC TCCTTGTAGT | | | | | |
| | TAGTTCTTAA AAATTTATTT | | | AAAATAAGTT | CTTAAAATTT | 120 |
| | ATTITTTCC NGAATAAATT | GTATTTGGTA | AA | | | 152 |
| 10 | | | | | | |
| | SEQ ID NO:3773 | | | | | |
| | SEQUENCE LENGTH: 151 | | | | | |
| | SEQUENCE TYPE: nucleic | acid | | | | |
| | TOPOLOGY:linear | | | | | |
| 15 | · CLONE: HUMGS04433 | | | | | |
| | SEQUENCE DESCRIPTION: | | | | | |
| | GATCGCAAAT CACAGCTCAG | ACAGCCAGCT | CTTAAGTGAG | ACCTGAGTGC | CAGAGAGGGG | 60 |
| | TGGATACAAG GCCAACAGTT | ACTAAATGAA | TGAAAATTGT | GATTCCGATG | AAGCCTGCCA | 120 |
| 20 | GAGAAATAAA GCATTTTTTA | AAAGATGGAA | A | | | 151 |
| | • | | | | | |
| | SEQ ID NO:3774 | | | | | |
| | SEQUENCE LENGTH: 151 | | | | | |
| | SEQUENCE TYPE:nucleic | acid | | | | |
| 25 | TOPOLOGY: linear | | | | | |
| | CLONE: HUMGS04434 | | • | | | |
| | SEQUENCE DESCRIPTION: | | | | | |
| | GATCTAGCCA TAAAACTAGT | AATCTTGAAT | TCCTCTTGAG | CTGGATGGTG | ATTAGCCATT | 60 |
| 30 | GTGAAAACAG ATTATATGGA | | | | | |
| | ACTGATAATA AAATATATCT | TACAAGATAA | A | | | 151 |
| | | | | | | |
| | SEQ ID NO:3775 | | | | | |
| 05 | SEQUENCE LENGTH: 151 | | | | | |
| 35 | SEQUENCE TYPE:nucleic | acid | | | | |
| | TOPOLOGY: linear | | | | | |
| | CLONE: HUMGS04435 | | | | | |
| | SEQUENCE DESCRIPTION: | | | | | |
| 40 | GATCTTTAGC TGCCTTTGTA | TCAACTTCTN | TGGAGCTTAT | GTGATTTTCC | AGAAAATATC | 60 |
| | CAAGGCATAG TTTTGTCCCT | | | | | 120 |
| | AATAGCACTT TTNGTGCATN | CCATTAACAA | A | | | 151 |
| | | | | | | |
| 45 | SEQ ID NO:3776 | | | | | |
| | SEQUENCE LENGTH: 150 | | | | | |
| | SEQUENCE TYPE:nucleic | acid | | | | |
| | TOPOLOGY:linear | | | | | |
| | CLONE: HUMGS04436 | | | | | |
| 50 | SEQUENCE DESCRIPTION: | | | | | |
| | GATCCATCAA AAGGTTCTTT | TTTNATAATC | CCTTTTGAAA | ATAATAATCA | AAGGAAGAGA | 60 |

| | TGTGGTGTTT GGTCATGTGG CAAATAAAAT NAAGCTGGAA | | | GACGTCTNTC | AAAAATCCGA | 120 150 |
|----|--|------------|------------|------------|------------|------------------|
| 5 | SEQ ID NO:3777 SEQUENCE LENGTH:146 SEQUENCE TYPE:nucleic TOPOLOGY:linear CLONE:HUMGS04437 | acid | | | | |
| 15 | SEQUENCE DESCRIPTION: GATCCNAAAG CACACCAGGA GAAAAACCCA AAGAAGAGCC NNNGTCTATA GTTATGTTTT | AGGAATACCA | | | | 60 120 146 |
| | SEQ ID NO:3778 | | | | | |
| 20 | SEQUENCE LENGTH:168 SEQUENCE TYPE:nucleic TOPOLOGY:linear CLONE:HUMGSO4439 SEQUENCE DESCRIPTION: | acid | | | | |
| | GATCAGAGAA GTTTATGCTC | | | | | |
| 25 | ACAGGGAAAT CATTTCACT TATTGTGGGT TCAGTTTCAG | | | | | 120 168 |
| 30 | SEQ ID NO:3779 SEQUENCE LENGTH:149 SEQUENCE TYPE:nucleic TOPOLOGY:linear CLONE:HUMGS04440 | acid | · | | | |
| | SEQUENCE DESCRIPTION: GATCTGACCC ACCAGTTTGT | ACATCACGTC | CTGCATGTCC | CACACCATTT | TTTCATGACC | 60 |
| 35 | TTGTAATATA CTGGTCTCTG AAATAAACCC ATCACATTTG | TGCTATAGTG | | | TAGTAAAATA | |
| 40 | SEQ ID NO:3780 SEQUENCE LENGTH:144 SEQUENCE TYPE:nucleic | acid | | | | |
| | TOPOLOGY: linear CLONE: HUMGS04441 | | | | | |
| 45 | SEQUENCE DESCRIPTION: GATCGGGACC TGACCTGGGG AGCCAGCTTA AACCCTAGCC AAACCACACT GACTACCTGT | CTNTNAGAGC | | | | |
| 50 | SEQ ID NO:3781 | | | | | |

| 5 | SEQUENCE TYPE:nucleic acid TOPOLOGY:linear CLONE:HUMGSO4442 SEQUENCE DESCRIPTION: | |
|----|--|----------------|
| | GTGCCATTGA CAACATGAGC CAGGGTAAAG GCACCCTTNN NNNTTACTGA TTTCAAAGAT 12 | 60 20 44 |
| 10 | SEQ ID NO:3782 SEQUENCE LENGTH:139 SEQUENCE TYPE:nucleic acid TOPOLOGY:linear | |
| 15 | CLONE:HUMGS04443 SEQUENCE DESCRIPTION: GATCTATGAC TCATTTGACA GAGAAGCCAA GGAAAAAAAG CTTGCTTGGC CCATTAACTC 6 AAATCCACCA AATACTTTG TCTAAGTTCT CATTCTTTCA ATTGTTATGC ACCAGAGATT 12 | 50 |
| 20 | AAAAAGCTTT AACTATAAA 13 | |
| 25 | SEQ ID NO:3783 SEQUENCE LENGTH:137 SEQUENCE TYPE:nucleic acid TOPOLOGY:linear CLONE:HUMGSO4445 | |
| 30 | SEQUENCE DESCRIPTION: GATCTGTGTC TTGAAGCAGC TGCCCTCATT CCGACTTCAG AAAATCGAAG CAGCTGGCTC 6 CTCCCCTTGT TCTCTCCCC ACCCTCCCCC AAATCTGTTT TCATGTAAAA GACAAATAAA 12 TGATGACTTC CCCCAAA 13 | |
| 35 | SEQ ID NO:3784 SEQUENCE LENGTH:137 SEQUENCE TYPE:nucleic acid TOPOLOGY:linear CLONE:HUMGS04446 | |
| 40 | SEQUENCE DESCRIPTION: GATCAAAATA AAAATGTACA TGACGGGGAA GGGAAAAACC TGTTGGAGTT GCTTCCAGCC 6 AGCCACGCTC CGGGCCAGCA TGTTGGAATC CAGCGTGGAG CAGATGCAGT AAAAATATGG 12 TTGGTTTCTG TGTGAAA 13 | |
| 45 | SEQ ID NO:3785 SEQUENCE LENGTH:137 SEQUENCE TYPE:nucleic acid TOPOLOGY:linear | |
| 50 | CLONE:HUMGS04447 SEQUENCE DESCRIPTION: GATCTCTCT TCNTTTTACC CCCCTTAGGC TGAGGGTAAA AAGCTGGGAT TGGTAGGCTG 6 | 0 |

| | GGTCCAGAAC ACTGACCGGG GCGTCATATG CNGNNNN | GCACAGTGCA | AGGACAATTG | CAAGGTCCCN | TCTCCAAGGT | 120 137 |
|----|---|------------|------------|------------|------------|------------------|
| 10 | SEQ ID NO:3786 SEQUENCE LENGTH:133 SEQUENCE TYPE:nucleic TOPOLOGY:linear CLONE:HUMGSO4448 | acid | | | | |
| 15 | SEQUENCE DESCRIPTION: GATCGGCCAA GTATGCTNTT TGTNATGACT CAGTACATAT TATTNACTCA TAN | | | | | |
| 20 | SEQ ID NO:3787 SEQUENCE LENGTH:132 SEQUENCE TYPE:nucleic TOPOLOGY:linear CLONE:HUMGSO4449 SEQUENCE DESCRIPTION: | acid | | | | |
| 25 | GATCTGTGTG ACCTCACCTG AGTTCAAACC CGTGTGTAAG AGAATCTTTA AA | | | | | 60 120 132 |
| 30 | SEQ ID NO:3788 SEQUENCE LENGTH:130 SEQUENCE TYPE:nucleic TOPOLOGY:linear CLONE:HUMGSO4450 SEQUENCE DESCRIPTION: | acid | | | | |
| 35 | GATCAGTATT TAANATTATA TTCTATTTCT GCCTCCCCTT TTTTNTTAAA | | | | | 60 120 130 |
| 40 | SEQ ID NO:3789 SEQUENCE LENGTH:129 SEQUENCE TYPE:nucleic : TOPOLOGY:linear CLONE:HUMGSO4452 | acid | | | | |
| 45 | SEQUENCE DESCRIPTION: GATCCCCCTT CACCTTTTGC AGATGCCAGC ACCATGCTTC AATAATAAA | | | | | 60 120 129 |
| 50 | SEQ ID NO:3790 SEQUENCE LENGTH:129 | | | | | |

| 5 | SEQUENCE TYPE:nucleic acid TOPOLOGY:linear CLONE:HUMGS04453 SEQUENCE DESCRIPTION: GATCCNCCAT GGTGGACACG TCTGTNCTGT ATGTAAAAGG CATTACAAAT GTTTTTTAGC 60 AGATGAGACT TGAAGCCTTT CCACAGTCCT TGTNCTCTGA GATGGCTGTN GAGCTCTGCT 120 CANCTGTTN 129 |
|------------|---|
| 10 | |
| | SEQ ID NO:3791 SEQUENCE LENGTH:126 SEQUENCE TYPE:nucleic acid TOPOLOGY:linear |
| 15 | CLONE: HUMGS04454 SEQUENCE DESCRIPTION: GATCCCTACC CCTCANCAAC TAGCTCCCCT GTCGGCCAGC TAAGAGAGCT GGGACANTGG 60 |
| 20 | AGGCTGGCAG AAGCTGAGAC GTGACTGTCT AGGAGTAACA CTCATTAAAG CTTTCNTTTT 120 GGCAAA 126 |
| 25 | SEQ ID NO:3792 SEQUENCE LENGTH:126 SEQUENCE TYPE:nucleic acid |
| | TOPOLOGY:linear CLONE:HUMGSO4455 SEQUENCE DESCRIPTION: GATCTGAAAA AGCAACCCAT TTCCTAAATT CATATTTTNC CTAAAACTTT ACTATGTTTT 60 |
| 30 | NATTITAAGA GGTTTCCTGT TATATACACT TTTNACACAT GCAAATAAAC TTTATACCAA 120 GTGAAA 126 |
| 35 | SEQ ID NO:3793 SEQUENCE LENGTH:126 SEQUENCE TYPE:nucleic acid TOPOLOGY:linear CLONE:HUMGS04456 |
| 40 | SEQUENCE DESCRIPTION: GATCTGTTTA GAAAATACCT TTGAAAACGA GGGTAACTTT AAAAAATGGA AACTTTCAAA 60 TCCATTTATA TTTTNNTTAT AANCAAAACT TAATTAAAAG TTTAACAAAC TGGCTGAAAA 120 CTCAAA 126 |
| 4 5 | SEQ ID NO:3794 SEQUENCE LENGTH:126 SEQUENCE TYPE:nucleic acid TOPOLOGY:linear |
| 50 | CLONE:HUMGSO4457 SEQUENCE DESCRIPTION: GATCACTGAG CTGCCCNTCA AGGGGACCTG GANNCCGGGT CCTGGGGTCA TGCTGCCTCC 60 |

| | NAGGCTCCAA GGTGAGGGTC GTCAAA | ATCTTCACGA | GCAAAGAGAA | CCAATAAAGT | GACAACGNAC | 120 126 |
|----|---|------------|------------|------------|------------|------------------|
| 5 | SEQ ID NO:3795 SEQUENCE LENGTH:123 SEQUENCE TYPE:nucleic TOPOLOGY:linear CLONE:HUMGS04460 | acid | | | | |
| 70 | SEQUENCE DESCRIPTION: GATCCAGGGC TTTCGAGGCC TCCAAAAGAA ATATGCACAC AAA | | | | | 60 120 123 |
| 15 | | | | | | 120 |
| 20 | SEQ ID NO:3796 SEQUENCE LENGTH:125 SEQUENCE TYPE:nucleic TOPOLOGY:linear CLONE:HUMGSO4462 | acid | | | | |
| 25 | SEQUENCE DESCRIPTION: GATCTCTGTG CTGTAAACTA TTCTTTTTTG TCTTGAATGA GTAAA | | | | | 60 120 125 |
| 30 | SEQ ID NO:3797 SEQUENCE LENGTH:119 SEQUENCE TYPE:nucleic TOPOLOGY:linear CLONE:HUMGSO4463 | acid | | | | |
| 35 | SEQUENCE DESCRIPTION: GATCTGGGGG CCCCCCCAGC ATGGGTTTTT TTCAGACCAT | | | | | 60 119 |
| 40 | SEQ ID NO:3798 SEQUENCE LENGTH:133 SEQUENCE TYPE:nucleic TOPOLOGY:linear CLONE:HUMGSO4464 | acid | | | | |
| 45 | SEQUENCE DESCRIPTION: GATCTAAAAN NATACTNTGT CTTACTTTCC CATTGTAACA TGGTGAGTTG AAA | | | | | 60 120 133 |
| 50 | SEQ ID NO:3799 SEQUENCE LENGTH:119 SEQUENCE TYPE:nucleic | acid | | | | |

| | TOPOLOGY:linear | | | | | |
|----|------------------------|-------------|------------|------------|------------|-----|
| | CLONE: HUMGS04465 | | | | | |
| | SEQUENCE DESCRIPTION: | | | | | |
| 5 | GATCCTGCAG TGATGGAATG | TTCTGTCTTG | ATTGTAGCAA | CACCAATATN | CTGATTGTNA | 60 |
| | TATTATACTA TAGTTTTGCA | TAACAGTTAC | CATTAAAGGA | AATTGGGTAA | AAGGCTAAA | 119 |
| | SEQ ID NO:3800 | | | | | |
| 10 | SEQUENCE LENGTH: 118 | | | | | |
| | SEQUENCE TYPE:nucleic | acid | | | | |
| | TOPOLOGY: linear | | | | | |
| | CLONE: HUMGS04466 | | | | | |
| 15 | SEQUENCE DESCRIPTION: | | | | | |
| | GATCTCTTAG CAAATAGGAA | | | | | |
| , | ATAAAAATGA GAAAGTATGT | ACAAAAAATC | ATCCTAAATC | TTAGAAAGGA | GACATAAA | 118 |
| | SEQ ID NO:3801 | | | | | |
| 20 | SEQUENCE LENGTH: 117 | | | | | |
| | SEQUENCE TYPE:nucleic | acid | | | | |
| | TOPOLOGY: linear | | | | | |
| | CLONE: HUMGS04467 | | | | | |
| 25 | SEQUENCE DESCRIPTION: | | | | | |
| | GATCTGGGAG CCAGCAGCTG | | | | | 60 |
| | GGGGGCTGGG GGGAGCCCCA | GGCTGAAAAG | GGTCCAATTA | AAACAAATGG | AGCCAAA | 117 |
| | SEQ ID NO:3802 | | | | | |
| 30 | SEQUENCE LENGTH: 117 | | | | | |
| | SEQUENCE TYPE: nucleic | acid | | | | |
| | TOPOLOGY:linear | | | | | |
| | CLONE: HUMGS04468 | | | | | |
| 35 | SEQUENCE DESCRIPTION: | | | | | |
| | GATCACATTC CAGCCCTCGC | | | | | 60 |
| | AAACTCCCTC CCCCTCCTTC | CCAAGAGAGA. | AATAAAANCA | CCTTCGCCTA | GGNCAAA | 117 |
| | SEQ ID NO:3803 | | | | | |
| 40 | SEQUENCE LENGTH: 116 | | | | | |
| | SEQUENCE TYPE:nucleic | acid | | | | |
| | TOPOLOGY:linear | | | | | |
| | CLONE: HUMGS04469 | | | | | |
| 45 | SEQUENCE DESCRIPTION: | | | | | |
| | GATCCTGACC TCCTCCAAGG | | | | | 60 |
| | TGCTGATTCT TTTTTCCTTT | TTTTTTTNN | AAAANAAAA | TACTATNANC | TGGAAA | 116 |
| 50 | SEQ ID NO:3804 | | | | | |
| | SEQUENCE LENGTH: 115 | | | | | |
| | SEQUENCE TYPE:nucleic | acid | | | | |

| 5 | TOPOLOGY:linear CLONE:HUMGSO4470 SEQUENCE DESCRIPTION: GATCAGAACT CCAAAACCAC GGCTNCTTGT GCTCAGGTCC | | | 60 115 |
|----|--|------|--|---------------|
| 10 | SEQ ID NO:3805 SEQUENCE LENGTH:114 SEQUENCE TYPE:nucleic TOPOLOGY:linear CLONE:HUMGS04471 | acid | | |
| 15 | SEQUENCE DESCRIPTION: GATCAACATA TTTAGCTTAT TATTTTGTAA AAATGTAGCT | | | 60 114 |
| 20 | SEQ ID NO:3806 SEQUENCE LENGTH:114 SEQUENCE TYPE:nucleic TOPOLOGY:linear CLONE:HUMGS04472 | acid | | |
| 25 | SEQUENCE DESCRIPTION: GATCANAGCT NTCCCAAAGA GGCAAAGNTT GTACCTNCAT | | | 60 114 |
| 30 | SEQ ID NO:3807 SEQUENCE LENGTH:112 SEQUENCE TYPE:nucleic TOPOLOGY:linear CLONE:HUMGS04473 | acid | | |
| 35 | SEQUENCE DESCRIPTION: GATCGAAAGA CTCAGGGAGA ATNAAAACTA CTCACTCCAC | | | 60 112 |
| 40 | SEQ ID NO:3808 SEQUENCE LENGTH:111 SEQUENCE TYPE:nucleic TOPOLOGY:linear | acid | | |
| 45 | CLONE:HUMGSO4474 SEQUENCE DESCRIPTION: GATCTGTTTC GTGCATTGGA GGGCTCCCNT CATCTCCAGG | | | 60 111 |
| 50 | SEQ ID NO:3809 SEQUENCE LENGTH:108 SEQUENCE TYPE:nucleic | acid | | |

| | TOPOLOGY:linear CLONE:HUMGS04476 | | | | | |
|----|--|------------------|------------|------------|---------------|-----------|
| | SEQUENCE DESCRIPTION: | | | | | |
| 5 | GATCAAGACT AACAAATAAC | TTTGTGATGA | AAATNCTTCA | AAAATATAGC | TACTCTTTTC | 60 |
| | AAGTATACCA TTTAAAATAT | TTCATCAGGC | AGAGCCCTGA | CCAGGAAA | | 108 |
| | SEQ ID NO:3810 | | | | | |
| 10 | SEQUENCE LENGTH: 108 | | | | | |
| | SEQUENCE TYPE:nucleic TOPOLOGY:linear | acid | | | | |
| | CLONE: HUNGS04478 | | | | | |
| | SEQUENCE DESCRIPTION: | | | | | |
| 15 | GATCAAGAAN ANTNAGGACA | ACGAGAAAGT | TTAAAAGTTC | GAAAGCAGCA | AGATNCCTTT | 60 |
| | CCCCCCTGGT CAATCNCTGA | | | | | 108 |
| | SEQ ID NO:3811 | | | | | |
| 20 | SEQUENCE LENGTH: 182 | | | | | |
| | SEQUENCE TYPE:nucleic | acid | | | | |
| | TOPOLOGY: linear | | | | • | |
| | CLONE: HUNGS 04482 | | | | | |
| 25 | SEQUENCE DESCRIPTION: | C 4 TT CTT 4 4 4 | 1001771707 | C111TTC111 | 11CT1CT1C | 60 |
| | GATCTTCAAG CAAGGGAAAT CAAATAAATG ATAAACATAA | | | | | 60 |
| | NGTGTTTATA AGANATTGTA | | | | | |
| | AA | MOMMIUIN | AMIOTAMIN | Anonituin | Idonnoniin | 182 |
| 30 | | | | | | |
| | SEQ ID NO:3812 | | | | | |
| | SEQUENCE LENGTH: 105 | | | | | |
| | SEQUENCE TYPE:nucleic | acid | | | | |
| 35 | TOPOLOGY: linear | | | | | |
| | CLONE: HUMGS04483 | | | | | |
| | SEQUENCE DESCRIPTION: | *********** | 0011000000 | #0###.#0## | ጥረም እር የተረጥቀር | co |
| | GATCTCCCCA AACTAAAAAG GTAAAGCACT AATATGCAGA | | | | IGIAGIGIIG | 60 105 |
| 40 | GIARAGORGI ARIRIGORGA | AAAIAAAUUA | ATTACACAGI | UCAAA | | 100 |
| | SEQ ID NO:3813 | | | | | |
| | SEQUENCE LENGTH: 105 | | | | | |
| | SEQUENCE TYPE:nucleic | acid | | | | |
| 45 | TOPOLOGY:linear | | | | | |
| | CLONE: HUMGS04484 | | | | | |
| | SEQUENCE DESCRIPTION: | | | | | |
| | GATCCNAAGC AGTGAACATG | | | | TGCATTTAAT | 60 |
| 50 | TTTTTAAATT AGTTTTAGTG | TACATAAAGG | CATGTNTTTN | CCAAA | | 105 |
| | SEQ ID NO:3814 | | | | | |

| 5 | SEQUENCE LENGTH: 105 SEQUENCE TYPE: nucleic TOPOLOGY: linear | acid | | | | |
|----|--|--------------|----------------|------------|---------------|-----|
| | CLONE: HUMGSO4485 SEQUENCE DESCRIPTION: | | | | | |
| | GATCCATGGG ATTNATAATT | GAAATAGAGA | TTGGAGACCC | TCCTATTCAN | TTCATAAGCA | 80 |
| | ATNGCACCAC AGGTCANATG | | | | IICAIAAGCA | 105 |
| 10 | | | | | | |
| | SEQ ID NO:3815 | | - | | | |
| | SEQUENCE LENGTH: 104 | | | | | |
| | SEQUENCE TYPE:nucleic | acid | | | | |
| 15 | TOPOLOGY: linear | | | | | |
| 15 | CLONE: HUMGS04486 | | | | | |
| | SEQUENCE DESCRIPTION: | | | | | |
| | GATCTTGCTA AATTATTAGT | | | | TTTTNTACAT | 60 |
| | ACACAATCAT GCTATTTGCA | AATAAAATAA | TGCTTTTATC | CAAA | | 104 |
| 20 | | | | | | |
| | SEQ ID NO:3816 | | | | | |
| | SEQUENCE LENGTH: 104 | | | | | |
| | SEQUENCE TYPE:nucleic | acid | | | | |
| 25 | TOPOLOGY: linear | | • | | | |
| | CLONE: HUMGS04487 | | | | | |
| | SEQUENCE DESCRIPTION: | | | | | |
| | GATCGAGTCC AAGGNAGACT | | | | CGCGACGCCT | 60 |
| 30 | GCTGTCCCCG GCCGGCTCAT | CTGGCGCCCC | AGCCTCCCCT | GNCN | | 104 |
| 50 | 000 ID NO. 2017 | | | | | |
| | SEQ ID NO:3817 SEQUENCE LENGTH:103 | | | | | |
| | SEQUENCE TYPE:nucleic | anid | | | | |
| | TOPOLOGY: linear | aciu | | | | |
| 35 | CLONE: HUMGS 04488 | | | | | |
| | SEQUENCE DESCRIPTION: | | | | | |
| | GATCAGCACT GTGGTGAGCT | CCAAGGAAGT | GAATAAGTTT | CANATGGCTT | ATTC & & ACCT | 60 |
| | CCTTAGAGCT AACATGGNTG | | | | ATTOMMOUT | 103 |
| 40 | 12101114 | 00010/210/21 | ONGINO NO IBIN | | | 100 |
| | SEQ ID NO:3818 | | | | | |
| | SEQUENCE LENGTH: 103 | | | | | |
| | SEQUENCE TYPE: nucleic | acid | | | | |
| 45 | TOPOLOGY: linear | | | | | |
| | CLONE: HUMGS04489 | | | | | |
| | SEQUENCE DESCRIPTION: | | | | | |
| | GATCCCAAAC CTNAGCTCAA | TCAGTATTGC | CAGANAGGGG | TAAGACTGGT | TGGAAGCTGA | 60 |
| 50 | CTGCAGACTT NNTTTCCCCT | TAGTATGTNC | TGTGTTGTAA | ATN | | 103 |
| | SEQ ID NO:3819 | | ė | | | |

| | SEQUENCE LENGT | H:102 | | | | | |
|----|-----------------|---------|--------------------|------------|------------|------------|-----|
| | SEQUENCE TYPE: | nucleic | acid | | | | |
| | TOPOLOGY: linea | r | | | | | |
| 5 | CLONE: HUMGS044 | 91 | | | | | |
| | SEQUENCE DESCR | IPTION: | | | | | |
| | GATCACTAAG CAA | AGCTGCT | AGTGGGATTC | TATATTTCGT | GTCATCTTTT | TTATNATAAT | 60 |
| | NTATTGCAAA TAT | TTTTCTG | AATAAATATA | TGTTGTGTGA | AA | | 102 |
| 10 | , | | | | | | |
| 70 | SEQ ID NO:3820 | | | | | | |
| | SEQUENCE LENGT | H:102 | | | | | |
| | SEQUENCE TYPE: | nucleic | acid | | | | |
| | TOPOLOGY: linea | r | | | | | |
| 15 | CLONE: HUNGS044 | 92 | | • | | | |
| | SEQUENCE DESCR | IPTION: | | | | | |
| | GATCCTGCCA CCA | GGGTTNT | TTTGAAATAG | TACCACATGT | AAAAGGGAAT | TTGGNTTTNA | 60 |
| | NTTCATCTAA TCA | CTGANTT | GTCAGGCTTT | GATTGATAAT | TN | | 102 |
| 20 | | | | | | | |
| | SEQ ID NO:3821 | | | | | | |
| | SEQUENCE LENGT | H:102 | | | | | |
| | SEQUENCE TYPE: | nucleic | acid | | | | |
| | TOPOLOGY:linea | r | | | | | |
| 25 | CLONE: HUMGS044 | 93 | | | | | |
| | SEQUENCE DESCR | IPTION: | | | | | |
| | GATCTTGTTC AAT | CGGAAAC | CCCCGTTACC | TCCTCTTTTT | CTTTCTCTTT | CTTTTTTTT | 60 |
| | TTTAACTNAA ANA | TANTTTT | ${\tt GATGATTAAG}$ | ANGGAAGTNG | TN | | 102 |
| 30 | | | | | | | |
| | SEQ ID NO:3822 | | | | | | |
| | SEQUENCE LENGT | H:102 | | | | | |
| | SEQUENCE TYPE: | nucleic | acid | | | | |
| 35 | TOPOLOGY: linea | r | | | | | |
| | CLONE: HUMGS044 | | | | | | |
| | SEQUENCE DESCR | IPTION: | | | | | |
| | GATCCCAAAC ACT | | | | | NCACACTGAT | |
| | GATGTGAGCC TGT | GAGATGA | GCCAATCACC | AGTTGTTATG | TN | | 102 |
| 40 | | | | | | | |
| | SEQ ID NO:3823 | | | | | | |
| | SEQUENCE LENGT | | | | | | |
| • | SEQUENCE TYPE: | | acid | | | | |
| 45 | TOPOLOGY:linea | | | | | | |
| | CLONE: HUMGS044 | | | | | | |
| | SEQUENCE DESCR | | | | | | |
| | GATCTCATGT ACT | | | | | TGTGAAACTG | |
| 50 | CAATATGACT GTA | AGAGAGT | AAAAAGATTG | TNACATCTAA | A | | 101 |
| 30 | | | | | | | |
| | SEQ ID NO:3824 | | | | | | |

| 5 | SEQUENCE LENGTH:101 SEQUENCE TYPE:nucleic acid TOPOLOGY:linear CLONE:HUMGS04496 SEQUENCE DESCRIPTION: GATCTGGGAG TCTGAAATGG TAGCNTTTTG | | | TAGGGAGAAT | 60 |
|----|--|------------|--------------|------------|-----------|
| | CAAAAGANCT AACAAATATA ANCATGCTTT | GTGAATNNCC | N | | 101 |
| 10 | SEQ ID NO:3825 SEQUENCE LENGTH:100 | | | | |
| | SEQUENCE TYPE: nucleic acid | | | | |
| 15 | TOPOLOGY: linear | | | | |
| | CLONE:HUMGS04497 SEQUENCE DESCRIPTION: | | | | |
| | GATCINITIT NINTCIATIT TITGAGGTAC | ATCCTACATA | CATTTUTUT | CTAAACAACT | 60 |
| | ATTTAGCATA TTGAATAAAA TAACATTTTA | | CATTINIAL | UIAAACAACI | 60 100 |
| 20 | TITIOOTTI TIUMITAAA TAAATITTA | AAAATAUAAA | | | 100 |
| | SEQ ID NO:3826 | | | | |
| | SEQUENCE LENGTH: 97 | | | | |
| | SEQUENCE TYPE: nucleic acid | | | | |
| 25 | TOPOLOGY:linear | | | | |
| 25 | CLONE: HUMGS04498 | | | | |
| | SEQUENCE DESCRIPTION: | | | | |
| | GATCCCACGG CNAACACTCA CCACNCGCTA | CCATACGCCN | TCCCAGAGCT | AGGGGCTGCC | 60 |
| | TTAAAGGAAA TTGTAGCCTA AGTAGGTCAT | GGCAAGN | | | 97 |
| 30 | | | | | |
| | SEQ ID NO:3827 | | | | |
| | SEQUENCE LENGTH: 96 | | | | |
| | SEQUENCE TYPE:nucleic acid | | | | |
| 35 | TOPOLOGY: linear | | | | |
| | CLONE:HUMGS04499 SEQUENCE DESCRIPTION: | | | | |
| | • | C1000011TT | ************ | ***** | ۰. |
| | GATCAGCCAC ATCAACTCAG TTGTCCACCA TNTTGTTTTG AAAAATAATA AACAGGCAAC | | IINAAIGICI | IIIGIIIIIG | 60 96 |
| 40 | INITIATITA AAAATAATA AACAUUCAAC | IUINAA | | | 30 |
| | SEQ ID NO:3828 | | | | |
| | SEQUENCE LENGTH: 95 | | | | |
| | SEQUENCE TYPE: nucleic acid | | | | |
| 45 | TOPOLOGY:linear | | | | |
| | CLONE: HUMGS04500 | | | | |
| | SEQUENCE DESCRIPTION: | | | | |
| | GATCTATTTG GCCTCTCAAA TGAACTGAGA | | AAAAGATTGA | TGTTATTGTC | 60 |
| 50 | TCTTGTAGAG GAAACTAATA AAGCTGCAGG | NGAAA | | | 95 |
| | SEQ ID NO:3829 | | | | |
| | DEM ID NO. 2023 | | | | |

| | SEQUENCE LENGTH: 94 SEQUENCE TYPE: nucleic | acid | | | | |
|----|---|----------------|------------|-----------------|------------|----|
| _ | TOPOLOGY: linear | | | | | |
| 5 | CLONE: HUMGS04501 | | | | | |
| | SEQUENCE DESCRIPTION: | GBG + BGG + BB | | * | | |
| | GATCTATCAT AATTGCTTTT | | | TGGAACACTT | AAATGTATAT | 60 |
| | TACCGATGCA AACTGTGGAT | AAAGIIGAAA | UAAA | | | 94 |
| 10 | SEQ ID NO:3830 | | | | | |
| | SEQUENCE LENGTH: 94 | | | | | |
| | SEQUENCE TYPE:nucleic | acid | | | | |
| | TOPOLOGY: linear | | | | | |
| 15 | CLONE: HUMGS04502 | | | | | |
| | SEQUENCE DESCRIPTION: | | | | | |
| | GATCACAGGC CTGGCCGCGG | TAACAGACTT | TTACATGGAA | TTGTTTAATT | ATTTGTACTT | 60 |
| | TTCATGCCAG AAAATAAAAG | TTCAGAATCT | TAAA | | | 94 |
| 20 | | | | | | |
| | SEQ ID NO:3831 | | | | | |
| | SEQUENCE LENGTH: 94 | | | | | |
| | SEQUENCE TYPE: nucleic | acid | | | | |
| 25 | TOPOLOGY:linear | | | | | |
| | CLONE: HUMGS04503 | | | | | |
| | SEQUENCE DESCRIPTION: | | | | | |
| | GATCACTACG ATTAACGACG | | | TCTCCATGAN. | CTTTGGGGGG | 60 |
| | ACTITAATNI GGAATAAAGA | AACTATCACT | NAAA | | | 94 |
| 30 | 470 IR NO 4000 | | | | | |
| | SEQ ID NO:3832 | | | | | |
| | SEQUENCE LENGTH: 93 SEQUENCE TYPE: nucleic | : 4 | | | | |
| | TOPOLOGY: linear | acid | | | | |
| 35 | CLONE: HUMGS04504 | | • | | | |
| | SEQUENCE DESCRIPTION: | | | | | • |
| | GATCCAGATN AAGTGCTGAA | GAAAGAAAA | AAGAAGTGGA | GAAGAGTATG | NTTATNCTTC | 60 |
| | TCCTTATTAA AGAAATTTNC | | | 0.11.0.10.11.10 | | 93 |
| 40 | | 10 | , | | | |
| | SEQ ID NO:3833 | | | | | |
| | SEQUENCE LENGTH:88 | | | | | |
| | SEQUENCE TYPE:nucleic | acid | | | | |
| 45 | TOPOLOGY:linear | | | | | |
| | CLONE: HUMGS04506 | | | | | |
| | SEQUENCE DESCRIPTION: | | | | | |
| | GATCTATCCA GTGACGTGGC | | TTTCTCCTTG | TACTTATGTG | GTTTTTTGGC | 60 |
| 50 | TTTNAATACA GACATTTTCC | TCCAGAAA | | | | 88 |
| | SEQ ID NO:3834 | | | | | |

| 5 | SEQUENCE LENGTH: 86 SEQUENCE TYPE: nucleic TOPOLOGY: linear CLONE: HUMGSO4507 SEQUENCE DESCRIPTION: GATCCCAAAA TATGGTAAAG | | . TGTCTGCAT | TTCT1CTCTC | : ልርቦርቦልፕፕፕሮ | 60 |
|----|---|------|-------------|-------------|--------------|----|
| | TTAATAAACA CTTATTTTTA | | Tulciucki | r ricincici | AUCCCATITE | 86 |
| 10 | | | | | | |
| | SEQ ID NO: 3835 | | | | | |
| | SEQUENCE LENGTH:84 SEQUENCE TYPE:nucleic | aaid | | • | | |
| | TOPOLOGY: linear | aciu | | | | |
| 15 | CLONE: HUMGS04509 | | | | | |
| | SEQUENCE DESCRIPTION: | | | | | |
| | GATCCGGGCC CCAGGCTGCT | | ATAACTTTAT | ' ATTATTTTN | TTTTAAGAAA | 60 |
| | AAAAGCTCTT TAAAATACCT | CAAA | | | | 84 |
| 20 | GPO ID NO COCC | | | | | |
| | SEQ ID NO:3836 SEQUENCE LENGTH:82 | | | | | |
| | SEQUENCE TYPE: nucleic | anid | | | | |
| | TOPOLOGY: linear | acru | | | | |
| 25 | CLONE: HUNGS04510 | | | | | |
| | SEQUENCE DESCRIPTION: | | | | | |
| | GATCTGAGGA GCAAACCTCC | | TTTACCTGCA | TAACAAACCT | GCACATCCTG | 60 |
| 00 | CATGTGTACC CCAGAACTTA | AA | | | | 82 |
| 30 | CEO ID NO. 2007 | | | | | |
| | SEQ ID NO:3837 SEQUENCE LENGTH:81 | | | | | |
| | SEQUENCE TYPE:nucleic | acid | | | | |
| 35 | TOPOLOGY:linear | | | | | |
| | CLONE: HUMGSO4511 | | | | | |
| | SEQUENCE DESCRIPTION: | | | | | |
| | GATCCAGGAG GCTCAAAGAG | | AGCTTTGTTG | TGATTTGATT | TTTTTTAAAA | 60 |
| 40 | AACTCTTGTA CAAAACTGAA | A | | | | 81 |
| | SEQ ID NO:3838 | | | | | |
| | SEQUENCE LENGTH: 81 | | | | | |
| | SEQUENCE TYPE:nucleic | acid | | | | |
| 45 | TOPOLOGY:linear | | | | | |
| | CLONE: HUMGS04512 | | | | | |
| | SEQUENCE DESCRIPTION: | | | | | |
| | GATCGCTACT GTTATGTGGG | | CTAAATNTTA | CTCATTGAAA | TAAGCATACA | 60 |
| 50 | ATAANANGCA TTTATTGCAA | A | | | | 81 |
| | SEQ ID NO:3839 | | | | | |

| | SEQUENCE LENGTH: 80 | | | | | |
|----|------------------------|------------|---------------|-------------|-------------|-----|
| | SEQUENCE TYPE: nucleic | acid | | | | |
| | TOPOLOGY: linear | | | | | |
| 5 | CLONE: HUMGS04513 | | | | | |
| | SEQUENCE DESCRIPTION: | | | | | |
| | GATCAAAACA AGACCCAGCT | TATTTTCTGC | TTGCTGGTAA | ATTAAGCAAA | CATGCTATAA | 60 |
| | TAAAAACAAA ATGAAGGAAA | | | | | 80 |
| 10 | | | | | | |
| | SEQ ID NO:3840 | | | | | |
| | SEQUENCE LENGTH: 78 | | | | | |
| | SEQUENCE TYPE:nucleic | acid | | | | |
| | TOPOLOGY: linear | | | | | |
| 15 | CLONE: HUMGS04514 | | | | | |
| | SEQUENCE DESCRIPTION: | | | | | |
| | GATCTGGTTG AAAATTGTAT | TTCTATGTAA | ACTCAACGAT | ATGTTTGGTT | TTCCTGAAAA | 60 |
| | TAAATAATTT TAAATAAA | | | | | 78 |
| 20 | | | | | | |
| | SEQ ID NO:3841 | | | | | |
| | SEQUENCE LENGTH: 75 | | | | | |
| | SEQUENCE TYPE:nucleic | acid | | | | |
| | TOPOLOGY: linear | 4014 | | | | |
| 25 | CLONE: HUMGS04515 | | | | | |
| | SEQUENCE DESCRIPTION: | | | | | |
| | GATCCTCACA CCTCAGCGTC | CCAGAGTGCT | GGGATTACAG | TTGTGAGCCA | CTGTGCCTGG | 60 |
| | CCTTTTTTT TTTTN | CONGROTOOT | dddiinond | TTGTGAGOCA | 0101000100 | 75 |
| 30 | | | | | | 10 |
| | SEQ ID NO:3842 | | | | | |
| | SEQUENCE LENGTH: 74 | | | | | |
| | SEQUENCE TYPE:nucleic | acid | | | | |
| | TOPOLOGY:linear | uciu | | | | |
| 35 | CLONE: HUMGS04516 | | | | | |
| | SEQUENCE DESCRIPTION: | | | | | |
| | GATCAGAAAT CTGAGGTTCA | ATGAGGCCAG | AATAACTCAG | CTTCAAAATG | AATAAATGTG | 60 |
| | GAAGCCAGCA CAAA | nionodocna | ADITABLE TOME | 01101000111 | MILMALIGIG | 74 |
| 40 | oralidoondon orau. | | | | | 1.3 |
| | SEQ ID NO:3843 | | | | | |
| | SEQUENCE LENGTH: 72 | | | | | |
| | SEQUENCE TYPE:nucleic | acid | | | | |
| 45 | TOPOLOGY: linear | dord | | | | |
| 40 | CLONE: HUNGSO4517 | | | | | |
| | SEQUENCE DESCRIPTION: | | | | | |
| | GATCTCCCCT TGGACTGATA | CCCTTTTCCC | ATTCATTCAC | AAATAAATTA | CAATGGGTGC | 60 |
| | TGAGAACTTA AA | | 10:11 10:10 | attimuti IV | J.211444140 | 72 |
| 50 | , | | | | | |
| | SEO ID NO-3844 | | | | | |

| 5 | SEQUENCE LENGTH: 78 SEQUENCE TYPE:nucleic TOPOLOGY:linear CLONE:HUMGS04518 SEQUENCE DESCRIPTION: GATCTGTGTC ATGGTTTTAT | | TNTTTGT4.4A | CTTGAATGTT | CAAAATTAAC | 60 |
|----|--|------------|-------------|------------|------------|----------|
| | ATGCTGTTTA CTCTGAAA | MOCITIVIA | INTITUTAAA | CITUANIUII | CAAAATTAAC | 78 |
| 10 | CFO ID NO. 2045 | | | | | |
| 15 | SEQ ID NO:3845 SEQUENCE LENGTH:71 SEQUENCE TYPE:nucleic TOPOLOGY:linear CLONE:HUMGS04519 | acid | | | | |
| | SEQUENCE DESCRIPTION: GATCAGGAAG AACTAAACAA | AACCCACACT | CCAAAAACTA | ACAAAGAATA | AATAAATAAT | 60 |
| 00 | ATAAAAATAA A | , | | | | 71 |
| | SEQ ID NO:3846 SEQUENCE LENGTH:71 SEQUENCE TYPE:nucleic TOPOLOGY:linear | acid | | | | |
| 25 | CLONE:HUMGS04520 SEQUENCE DESCRIPTION: GATCTCAGAA CAGANTTAAA TTTNTTGTAA A | ATATTGTGAA | AATTACAGCT | TAATAAATGT | TTATTGTAAT | 60 71 |
| 30 | | | | | | |
| 35 | SEQ ID NO:3847 SEQUENCE LENGTH:69 SEQUENCE TYPE:nucleic TOPOLOGY:linear CLONE:HUMGSO4521 SEQUENCE DESCRIPTION: GATCTAGGAC TTGCCTTATT TTCATTAAA | | TCTTTAATAA | TCTCCAATAA | ACTTTCTTTA | 60 |
| 40 | IICAIIAAA | | | | | 69 |
| 45 | SEQ ID NO:3848 SEQUENCE LENGTH:69 SEQUENCE TYPE:nucleic TOPOLOGY:linear CLONE:HUMGSO4522 SEQUENCE DESCRIPTION: | acid | | | | |
| 50 | GATCACCACT AAAGAACTTA GGAAATAAA | CTCATATAAC | CAAATACCAC | CTGTNCTCCC | AAAAACCTAT | 60 69 |
| | SEQ ID NO-3849 | | | | | |

| 5 | SEQUENCE LENGTH:69 SEQUENCE TYPE:nucleic TOPOLOGY:linear CLONE:HUMGS04523 SEQUENCE DESCRIPTION: GATCAGTATG CTGTTTTAAT CNNTTTAAA | | CATTTTAATA | AAATGAAAGG | GTCAACGGCC | 60 69 |
|----|--|------------|------------|------------|------------|----------|
| 15 | SEQ ID NO:3850 SEQUENCE LENGTH:67 SEQUENCE TYPE:nucleic TOPOLOGY:linear CLONE:HUMGS04525 | acid | | | | |
| 20 | SEQUENCE DESCRIPTION: GATCTACACT GATGATTAAA CTCCAAA | TCAAATTGGC | TAAGATTATT | CGTTCTAATA | AAAGCACTGA | 60 67 |
| 25 | SEQ ID NO:3851 SEQUENCE LENGTH:67 SEQUENCE TYPE:nucleic TOPOLOGY:linear CLONE:HUMGS04527 SEQUENCE DESCRIPTION: GATCTCTTCC TGTTTTGTAC | | TTTTCAGTTC | CAAGAAAGAT | GAATACATTT | 60 |
| 30 | TGTNAAA | | | • | | 67 |
| 35 | SEQ ID NO:3852 SEQUENCE LENGTH:67 SEQUENCE TYPE:nucleic TOPOLOGY:linear CLONE:HUMGSO4528 SEQUENCE DESCRIPTION: GATCTAGCAT ATGTATCTTT ATANAAA | | TTGTTAATAA | ATATNCTGTC | ATTTGTAAAG | 60 67 |
| 40 | CEO ID NO. 2052 | | | | | |
| 45 | SEQ ID NO:3853 SEQUENCE LENGTH:66 SEQUENCE TYPE:nucleic TOPOLOGY:linear CLONE:HUMGSO4529 SEQUENCE DESCRIPTION: GATCCATCTT CAAATCAAGG | | TACCAAATNC | TGTCTAGTAA | AAATNATTCG | 60 |
| 50 | AGCAAA | | | | | 66 |
| | SEQ ID NO:3854 | | | | | |

| 5 | SEQUENCE LENGTH:64 SEQUENCE TYPE:nucleic acid TOPOLOGY:linear CLONE:HUMGS04530 SEQUENCE DESCRIPTION: GATCTATTCA ATGTACAAAA TATTTTGAAA GTTTCTGTGA TTAAATGTNC TTTGAAAACA | 60 64 |
|----|---|----------|
| 10 | | 0.7 |
| | SEQ ID NO:3855 SEQUENCE LENGTH:64 SEQUENCE TYPE:nucleic acid TOPOLOGY:linear | |
| 15 | CLONE:HUMGS04531 SEQUENCE DESCRIPTION: GATCTGTTAT NAACACCTTT GTTGGCTTGG TTCAGTAATA AATATGTNAG ACTTTTCATT TAAA | 60 64 |
| 20 | | |
| 25 | SEQ ID NO:3856 SEQUENCE LENGTH:62 SEQUENCE TYPE:nucleic acid TOPOLOGY:linear CLONE:HUMGS04532 SEQUENCE DESCRIPTION: | |
| | GATCTGTGTA AGCTCTGAAT GAACTTCTTT ACTCAATAAA ATTAATTTTT TGGCTTCTTA | 60 62 |
| 30 | | |
| 35 | SEQ ID NO:3857 SEQUENCE LENGTH:61 SEQUENCE TYPE:nucleic acid TOPOLOGY:linear CLONE:HUMGSO4533 SEQUENCE DESCRIPTION: GATCCAAGAT ACGTCATTTC TGTATTGGCA AAATGCCACT ATTAAAGTGT AATTCTTGAA | 60 |
| | A | 61 |
| 40 | | |
| 45 | SEQ ID NO:3858 SEQUENCE LENGTH:60 SEQUENCE TYPE:nucleic acid TOPOLOGY:linear CLONE:HUMGS04534 SEQUENCE DESCRIPTION: | |
| | GATCTCAAGT GCTTAATGAT AAGGTGTTGA CTTGTTAAAT TAAACCATTT GGAATACAAA | 60 |
| 50 | SEQ ID NO:3859 SEQUENCE LENGTH:60 | |

| 5 | SEQUENCE TYPE:nucleic TOPOLOGY:linear CLONE:HUMGSO4535 SEQUENCE DESCRIPTION: | acid | | | | |
|----|---|------------|------------|------------|------------|----|
| | GATCAAATGC CCTAAAATGT | AGTGACCCGT | GAAAAGGACA | AATAAAGCAA | TGAATACAAA | 60 |
| | SEQ ID NO:3860 | | | | | |
| 10 | SEQUENCE LENGTH: 60 | | | | | |
| | SEQUENCE TYPE:nucleic | acid | | | | |
| | TOPOLOGY: linear CLONE: HUMGS04536 | | | | | |
| | SEQUENCE DESCRIPTION: | | | | | |
| 15 | GATCTGAGAC TTTGAGTCTC | CAGAACTGTG | AGAAAATAAA | TTTCTGTTTC | TTAAGCCAAA | 60 |
| | SEQ ID NO:3861 | | | | | |
| | SEQUENCE LENGTH: 60 | | | | | |
| 20 | SEQUENCE TYPE:nucleic | acid | | | | |
| | TOPOLOGY: linear | | | | | |
| | CLONE: HUMGS04537 | | | | | |
| | SEQUENCE DESCRIPTION: | | | | | |
| 25 | GATCTTTCCT GTCTTCCCCA | AGTTTGCATT | TCCGACATTA | AAGTTTACTT | TTNAGTTAAA | 60 |
| | SEQ ID NO:3862 | | | | | |
| | SEQUENCE LENGTH: 59 | | | | | |
| | SEQUENCE TYPE:nucleic | acid | | | | |
| 30 | TOPOLOGY:linear | | | | | |
| | CLONE: HUMGS04538 | | | | | |
| | SEQUENCE DESCRIPTION: | 0101101011 | m | 0001000100 | 001100111 | ۲0 |
| | GATCAATCAG GGAGAAAATA | CAGAAGAGAA | TAAAAAGAGA | CICATICAGI | GGAAGCAAA | 59 |
| 35 | SEQ ID NO:3863 | | | | | |
| | SEQUENCE LENGTH:59 | | | | | |
| | SEQUENCE TYPE:nucleic | acid | | | | |
| | TOPOLOGY:linear | | | | | |
| 40 | CLONE: HUMGS04539 | | | | | |
| | SEQUENCE DESCRIPTION: | | | | | |
| | GATCTGAATT AAGCTGTCTG | CCATTTGGAG | AAATTTAAAT | ACTATTTTAA | ACACACAAA | 59 |
| 45 | SEQ ID NO:3864 | | | | | |
| | SEQUENCE LENGTH:58 | | | | | |
| | SEQUENCE TYPE:nucleic | acid | | | | |
| | TOPOLOGY: linear | | | | | |
| 50 | CLONE: HUMGS 04541 | | | | | |
| | SEQUENCE DESCRIPTION: GATCCACCCA GGCCTTTCNG | TGAAATAAAA | CCTCCCAACT | TGGGTACAAA | CCAGGAAA | 58 |
| | autocuccou agentifua | IOVVVIVVVV | ac receven | IGGGIVOVV | CONDUNAN | JO |

| 5 | SEQ ID NO:3865 SEQUENCE LENGTH:57 SEQUENCE TYPE:nucleic TOPOLOGY:linear CLONE:HUMGSO4542 SEQUENCE DESCRIPTION: GATCCCAGTC TGAAGGATTA | | TAAATGAGAG | AATGTGTAAA | TGGCAAA | 57 |
|----|--|------------|------------|-----------------------|------------|----|
| 10 | | • | | | | |
| 15 | SEQ ID NO:3866 SEQUENCE LENGTH:56 SEQUENCE TYPE:nucleic TOPOLOGY:linear CLONE:HUMGSO4543 SEQUENCE DESCRIPTION: | | | | | |
| | GATCTGTGTA TTTGATTTTG | TACTTTAAAT | GTGACAAATA | AACCTTTTGG | GAGAAA | 56 |
| 20 | SEQ ID NO:3867 SEQUENCE LENGTH:55 SEQUENCE TYPE:nucleic | acid | | | | |
| | TOPOLOGY: linear | | | | | |
| | CLONE: HUMGS04546 | | | | | |
| 25 | SEQUENCE DESCRIPTION: | | | | | |
| | GATCTAATTC TGAAAACATT | GTAATAAAAT | AATNAGCTAT | AATGGTATTT | TCAAA | 55 |
| 30 | SEQ ID NO:3868 SEQUENCE LENGTH:55 SEQUENCE TYPE:nucleic TOPOLOGY:linear CLONE:HUMGS04547 | acid | | | | |
| | SEQUENCE DESCRIPTION: | | | | | |
| 35 | GATCTCGAGC GTTTATCTCG | GGCTTTAATT | TGCTAAAGCT | NTGCACATAT | GTAAA | 55 |
| 40 | SEQ ID NO:3869 SEQUENCE LENGTH:85 | . 1 | | | | |
| 40 | SEQUENCE TYPE:nucleic TOPOLOGY:linear CLONE:HUMGSO4548 | acid | | | | |
| | SEQUENCE DESCRIPTION: GATCTGCCAT GCACTCCAGC | CTAGGCAACA | AGAGTGAACT | ሮ ፕሮፕሮፕሮ ል ል ል | ATAAAATAAA | 60 |
| 45 | ATAAAATAAT AATAGTAATA | | MANUIUMALI | CIGICIONAN | AIAAAA AAA | 85 |
| | SEQ ID NO:3870 | | | | | |
| | SEQUENCE LENGTH: 52 | | | | | |
| 50 | SECHENCE TYPE: pucloic | anid | | | | |

| | TOPOLOGY:linear CLONE:HUMGS04552 | | | | | |
|----|---|------------|------------|------------|------------|-----------|
| 5 | SEQUENCE DESCRIPTION: GATCAAAGGT CATTTGTGTA | GATGAGTAAT | TAAAAAATAT | TTAAATCACA | AA | 52 |
| 10 | SEQ ID NO:3871 SEQUENCE LENGTH:51 SEQUENCE TYPE:nucleic | acid | | | | |
| | TOPOLOGY:linear CLONE:HUMGSO4556 SEQUENCE DESCRIPTION: | | | | | |
| 15 | GATCAAATAG AAACAGGGTT | TGCAAGTNTC | CATACAGATG | CCTCTACCAA | A | 51 |
| | SEQ ID NO:3872 SEQUENCE LENGTH:50 SEQUENCE TYPE:nucleic | acid | | | | |
| 20 | TOPOLOGY: linear CLONE: HUMGS 04557 SEQUENCE DESCRIPTION: | BCTU | | | | |
| | GATCCTATGT AAAATATATA | TTTATGTATT | AAAAATACTG | AAAACATAAA | | 50 |
| 25 | SEQ ID NO:3873 SEQUENCE LENGTH:443 | | | | | |
| | SEQUENCE TYPE:nucleic TOPOLOGY:linear | acid | | | | |
| 30 | CLONE: HUMGS04597 SEQUENCE DESCRIPTION: | | | | | |
| | GATCCTATTT TATAAGGAAT CTTGAATGTA TACTCCTTAT | | | | | 60 120 |
| 35 | CTGGAAAGAA AATTGATTTT | | | | | |
| | CCTTTAACTC AGCACTTTCA | | | | | |
| | TTCTTCTCTA AATTGAATTG GTATTATAAT TCCGTAGCTG | | | | | |
| | TTTAAAAATG NCTCAGCATT | | | | | |
| 40 | TGNTNACCTA CCATAANTAT | | | | | 443 |
| | SEQ ID NO:3874 | | | | | |
| | SEQUENCE LENGTH: 423 | | | | | |
| 45 | SEQUENCE TYPE:nucleic | acid | | | | |
| | TOPOLOGY:linear CLONE:HUMGS04598 | | | | | |
| | SEQUENCE DESCRIPTION: | , | | | | |
| | GATCTATGGT ACAGTTCATT | GGCAGAGAAT | CCAAGTACTG | TGGACTTTGT | GATTCCATAA | 60 |
| 50 | TAACCATCTA TCGGGAAGAG | | | | | |
| | TAGGTGACAT CCTTTCTTTG | TGGCTGTGTA | ACTCACNNCC | CTACCTCGTC | AATACCTATG | 180 |

| 5 | CACTGGACAG TGGGGTTTCT GATTTTTTGC GAGTATGTTG ACAACTGTGG TCTTGCTGGT GACTGTTGGT GCATGCTACA TTN | ACCTATCCCT GGATGCCCTC | TTGTGCTTGT CTTACTCCCC | CTCCAATCTT AATATATACG | ATGGCTGTCA NCTTGGGATA | 300 360 |
|----|---|--------------------------|--------------------------|--------------------------|--------------------------|------------|
| 10 | SEQ ID NO:3875 SEQUENCE LENGTH:413 SEQUENCE TYPE:nucleic TOPOLOGY:linear CLONE:HUMGS04599 | acid | | | | |
| 15 | SEQUENCE DESCRIPTION: GATCCAAATN ACCATCATCT TCACTGCTAG GGATGCTCAA TTTCCTCTCT GAGCANCCTC GTACCTAGCA GAGGCTGTCA | GGGGCAGGCC CTACCTCCCC | TGGGGCCTTC TGCCTGAGCC | CCTCCTGTCT TCACTCCACA | CTTCTCGGTC GCCCTCCCAG | 120 180 |
| 20 | ACAAGGTGTG TGCCNCACCA TTGTATTTGA GGGCCTCAAG CCCAAGTGNG GTTCCTCTGT | AGAGTGAGGC | CCTACCATCA | CTGTCCATAT | TAAGTCCAAG | |
| 25 | SEQ ID NO:3876 SEQUENCE LENGTH:410 SEQUENCE TYPE:nucleic TOPOLOGY:linear CLONE:HUMGS04600 | acid | | | | |
| 30 | SEQUENCE DESCRIPTION: GATCCACCTG CCTCGGACTC ATTATTTGAA ACTTTTATTT TTGGTATGAA AATTACATAT | TATCATGAGA | GAGTTCCAGG | AGTCAACTGG | AGAGAGATTT | |
| 35 | TTTACATTAA ATGCCTTCAA GTTTTGAATG ATTTGGTCTA GGGCACAGCG GCTCAAGTGG AACATGGGGG GACCCCTTNC | TCATATGAAA GAGGNCTGCT | TAACTTTTAT TAAGCACCCG | AAATATAGTA AGTTTNAGAC | NCTCAGGCCT | 300 |
| 40 | SEQ ID NO:3877 SEQUENCE LENGTH:402 SEQUENCE TYPE:nucleic TOPOLOGY:linear | acid | | | | |
| 45 | CLONE:HUMGS04601 SEQUENCE DESCRIPTION: GATCCCAACA ATGGAACTTT GATTTGATAC AGACAATTTA GGAGAGCAAG GGAGGGNNNC | GAAAACTTTT | GTTTCAAAGT | TTCCCATCCA | GACTAGCCAA | 120 |
| 50 | TTTGTCCTTC TGCCCAAATG TTTTGANGGA AATATGTGAA | | | | | |

| | NAGTGTTATN | NATTNCTTCC | TATTTGNCTG | AATTTTNCCA | AATTTGTCCA | CAGCAAGCAT | 360 |
|----|----------------|------------|------------|------------|------------|------------|-----|
| | GACTACTTTN | NTCATATNAA | ATCTCCANTG | NATTTATGCA | AA | | 402 |
| 5 | SEQ ID NO:3 | 070 | | | | | |
| 5 | SEQUENCE LE | | | | | | |
| | SEQUENCE TY | | aaid | | | | |
| | TOPOLOGY: 11: | | aciu | | | | |
| | CLONE: HUMGS | | | | | | |
| 10 | SEQUENCE DE | | | | | | |
| | GATCTTGTCA | | ATTTATATCA | AATTTATGAG | AGAAAGTATT | TTCCTAATNA | 60 |
| | TGGTCAAATA | | | | | | |
| | AGTTTTCAAA | | | | | | |
| 15 | CTATTTAATA | | | | | | |
| | TATGGTTGTG | | | | | | |
| | AAANGTTGCA | | | | | | |
| | TGTNATTGCC | | | | diincinna | divitation | 393 |
| .0 | Idinatidee | HIGHHILMI | Adocorragi | 1111 | | | 333 |
| 20 | SEQ ID NO: 3 | 879 | | | | | |
| | SEQUENCE LE | | | | | | |
| | SEQUENCE TY | | acid | | | | |
| | TOPOLOGY: 1 in | | | | | | |
| 25 | CLONE: HUMGS | - | | | | | |
| | SEQUENCE DE | | | | | | |
| | GATCTNAAGC | | GACACCCCAT | ACCCANAGEC | CTCCAGGCCA | CCCTTAAGTA | 60 |
| | CAATGTTCTC | | | | | | |
| 30 | CTACTCTTTG | | | | | | |
| | ATCCAGTATG (| - | | | | | |
| | CATTGAAGAG | | | | | | |
| | TCTTTTCTAC | | | | | | |
| | AGAGCAACCT | TGTGTTCAAC | ATTCAGCCAG | GN | | | 392 |
| 35 | | | | | | | |
| | SEQ ID NO:3 | 880 | | | | | |
| | SEQUENCE LE | NGTH: 385 | | | | | |
| | SEQUENCE TY | PE:nucleic | acid | | | | |
| 40 | TOPOLOGY: 1 is | near | | | | | |
| | CLONE: HUMGS | 04604 | | | | | |
| | SEQUENCE DE | SCRIPTION: | | | | | |
| | GATCTCACCA | CTGCACTCTA | GCCTGGACGA | CAGAGGGAGA | CTGTCTCCAA | AAAAAAACAA | 60 |
| 45 | AGAAAGAAAG | AAAAAACTGT | TAAAAAAA | TTNCTGCAAT | GGNCTTAATA | TGTGTGTCCC | 120 |
| | TTAAAAATGT | ATATATTGAA | ACTCTAATCC | CAATGTGATG | TTATTTAGAG | GTGGGGCCTG | 180 |
| | TAGGAGGTAA | CTGGGTCCTA | AGGGTAGAGC | CCTCATGANT | GAGATTAGTG | CCCTTATAAG | 240 |
| | ANGCCCAAAA | GCTAGCTACC | TCTNTTTCCA | CTATGTAAGG | NTACAAAGNG | AAGTTGGCTG | 300 |
| | TCTGCAAACT | AGAAGAGGGC | TGATACAGTT | TGGCTGTGTC | CCCACCCAAA | TCTTCATCTT | 360 |
| 50 | AGGTTTTTAA | CTNCCGCAAT | TCCCN | | | | 385 |

| 5 | SEQ ID NO:3881 SEQUENCE LENGTH:383 SEQUENCE TYPE:nucleic acid TOPOLOGY:linear CLONE:HUMGS04605 SEQUENCE DESCRIPTION: |
|----|--|
| 10 | GATCTTAAGG TAATTACAAA AGGGAAATTC CAAGAATGCA TAACACAATG ACAACATGGT 60 GAGAAAAGTG CAGTACTACT TCCAAGGTAG CTAGTGTAAA GGACACTTGA GTTTTTAAAA 120 CTGTGGTTAA ATGTTTTATG TGGAATTTGA TGAGTTTGTA TATTAAATAC CACTGCTTGC 180 TGCTTTTACT AGAATCAAGT TAAGGGNCAC GTTAGAAATA GAACAGCTTA ATATCACTGG 240 CTTCAGAGCA AAATGAGCTC GGGTGACTGC AGATTATGAT GGTAAATATG GCTTTAATTA 300 CAAACATGNG GNATGATTCA CTGAAGGTGA AAAGNTAGGG CGGNTGTGNT ATTGAAAAAA 360 |
| 15 | AACCCANCAT TTTTGGCATT GAN 383 |
| 20 | SEQ ID NO:3882 SEQUENCE LENGTH:383 SEQUENCE TYPE:nucleic acid TOPOLOGY:linear CLONE:HUMGS04606 |
| 25 | SEQUENCE DESCRIPTION: GATCTATTTC TCAGTAATGA GTGTGTNCTC ATGCCTGTTT CAATATTGGG TTTTGGAGCA 60 TTATTGTACC AGGCTGTTGA TTGCATACTG TAGAAGATTT GATGTTCANA CTGGTTCTTC 120 TTCATATACT ATGTTTNGTC TCAGTTNCTA TGCTATTGGA TGATACTTCA TTTGTTGTTC 180 TGGTGCTGAT GAAAAGGGNA ACCTGCTCTC CTCTATTTAG ACCTTGACAC TTATTACTGC 240 TCAGTTGTTN CTGGAGCTGA AGNAATGAAA NGTCTGGAAG GAACAGCTAT CAGATGTGGC 300 |
| 30 | CATTTGGATT GTNACAAATG AGGAACCCTG TGTACTGGGA CAGTTGCCAN AATAATATAT 360 |
| 35 | SEQ ID NO:3883 SEQUENCE LENGTH:380 SEQUENCE TYPE:nucleic acid TOPOLOGY:linear CLONE:HUMGS04607 |
| 40 | SEQUENCE DESCRIPTION: GATCTGAAGC CAGAAGGGCT GAGTGTATTG TNAACTTATT CTTGCATGTN GCTGTCTGGG 60 AATGGACCAC ACTACAGCAG GTAGTNCTGG GGGCGATACT GCCGAAAGNC CGANCACATG 120 TATTTTGGCT GCAATTGAGG NNCTTGGGAT GCTATTAATT TTGTATTTCA GCAACTGCCC 180 |
| 45 | CTTCTCCTAT CCCAAAGCAC CAATTACTNC CCTCTGCCTC AGNGGTACCA GTATAAGATG 240 ACATTCCAAA GACTGGAGGC AACTCAGCCT GAGTTAATTC ACAAAATTAT GCCATGCTGG 300 GGCTTGAGCT TGAGCTTGGG CTTAGGCTTG GGCTCAGCTT TTGACCCTCA GGCATCTCCT 360 TTNCCTTNCT GTCTTNCTTN 380 |
| 50 | SEQ ID NO:3884 SEQUENCE LENGTH:377 SEQUENCE TYPE:nucleic acid |

| 5 | TOPOLOGY:linear CLONE:HUMGSO4608 SEQUENCE DESCRIPTION: GATCTGTTCA CAAGCTGGTG TTATATGGAC TCAGAGACAA ATGGGAGGTA ATTGCATGGC TAGATTTAAA ATATACTGAT GNATTCAGAC ATTCATCCAA CATATGAAAG TGATTTCNGC TGGTTGTNTT CACATGN | TGTACATGGG AGGTGTAAAG ACTGAAAGCA AGGNTTTAGG | AGTGCTTTGC TTATTTGGAC GANCTGTTTG CCAAATGTTG | CAGTGGTAAA CATTGAGGCC ANCTAATTGC CCTAAATTGT | GTTTCTACAA AGAAAAAATG TAATTTTAAG TTCTCTATTG | 120 180 240 300 |
|----|---|--|--|--|--|--------------------------|
| 15 | SEQ ID NO:3885 SEQUENCE LENGTH:367 SEQUENCE TYPE:nucleic TOPOLOGY:linear | acid | | | | |
| 20 | CLONE:HUMGS04609 SEQUENCE DESCRIPTION: GATCAAGGTG AAGCTCACAG CACTGAGGTC CCATTCCGCC | TCATGCACCC | TCAGCCTGAG | GACCCAGCTA | AGGAAAGTTA | 120 |
| 25 | TCAGGATGCA AATTTAGTTT AGCTGAGGAG GGGAAGAGAG GCCGGAAAAT GACCTGTAGT GAGTTATGCT GCGTATGAAA CCTGAAA | ACAAGAATGA TACCAGTGCA | CATTGATGAG ACGGGCAAAG | TGAAGATGTC CCCCACAGTT | GGCTCAGGAT TAGTCCTTTG | 240 300 |
| 30 | SEQ ID NO:3886 SEQUENCE LENGTH:360 SEQUENCE TYPE:nucleic TOPOLOGY:linear | acid | | | | |
| 35 | CLONE:HUNGSO4610 SEQUENCE DESCRIPTION: GATCAAAGTA GCTTACTATA | TCTAAACTGT | AAAACAATAT | AGTTTCTCCT | GAACACCTGC | 60 |
| 40 | TTTCCTTCTG GGAGTCTGGA CTCCCAGTAA AAACCCCAGG ACAAGTGCTG TTACAACTGG CGGAGGATTC TTGGAAGCTT TCCTTTGCTG ATTTTGTTTT | CACTCAGTCT TTGCTGGGAG GCACTTAGTT | CTAACAAGCT AATTAAGCTC TCCCCTNGAC | TTTCTGGTTG ATCCTCTGTG TTCACCCCAT | ACAGTGTTTC ATTCCACTGG GTGTCTTTTT | 180 240 300 |
| 45 | SEQ ID NO:3887 SEQUENCE LENGTH:359 SEQUENCE TYPE:nucleic TOPOLOGY:linear CLONE:HUMGSO4611 | acid | | | | |
| 50 | SEQUENCE DESCRIPTION: GATCGCAAGT GACTGCTTCC | GCTTCCAGGA | CTGGGCCAGC | TAGTGGGGGT | GGCAGAGGTC | 60 |

| 5 | TCTTTGCTTC ATTCAGCCCT GAGGAACACA AGTTCATTCC TGAACTCTTN NTTGTTGCTC CATAGTTTCC TTNNCAAAGT TTGATTCTGG AANATTCTNG | TGTTGTTGCG AAGTTCTAGG AGTAAACTTT | GAGACACTGC AGTCCCTTTC TCTATTNNTC | AGACTCCACT CTGAATATAT TACTTGCCCA | GTGCCGAGGT ACTTGTTTGT GTAGAGACTC | 180 240 |
|-----|---|--|--|--|--|------------|
| 10 | SEQ ID NO:3888 SEQUENCE LENGTH:359 SEQUENCE TYPE:nucleic TOPOLOGY:linear | acid | | | | |
| 15 | CLONE:HUMGS04612 SEQUENCE DESCRIPTION: GATCACTTGA GGCCAGGAGT CAAAAAATAA AAAAAATTAG GAGATGTGTT TGTGCCATTG | CTAGGCATAG | TACCTGAGGC | CAGGAGGTCC | AGGCCGCAAT | |
| .20 | GCANNTTAAA TAAAATATCT ATTTNTTTAN TATTTTCTAA GTGTTATCTG TAATCTNTCC | TCATATATAA TCTGAACCCA | ATTAAGCTAA TATNCAGCTG | TTAAAANTAT ACTANTTCAT | TTTTCCCTGT TCTTAGAANT | 240 |
| 25 | SEQ ID NO:3889 SEQUENCE LENGTH:359 SEQUENCE TYPE:nucleic TOPOLOGY:linear | acid | | | | |
| 30 | CLONE: HUMGS04613 SEQUENCE DESCRIPTION: GATCTAAAGG GGACACTGTA TTTGGGGGTT TTGTTTGGTT TGTTTTGGCC TTTCCTCTTT | CCTGAGAGGG | TTGTGTTTTG | TTTTTGTTTC | CTTTTGTTTA | |
| 35 | GGCTAGAGGT GTAATGTGCA GAAATCGAAT CGTGGATTCA CGGTTCAGTA CCTATTGTTT | CCAGGCCGGT | GCTGGCACAC | TCACCCTCGC | CCTTTCCCTC | |
| 40 | SEQ ID NO:3890 SEQUENCE LENGTH:358 SEQUENCE TYPE:nucleic TOPOLOGY:linear CLONE:HUNGSO4614 SEQUENCE DESCRIPTION: | acid . | | | | |
| 45 | GATCTGATGG GCTCTAACAG ATGTTTCTCT CCGTTGGCCG GAGTGGGCCC ACCATTTGTG GGAAAAANAC AAGGTNAGGA | TTGGGTTTCC GGGAAAGTAT | AACTCTTCAA CATTCCTCCA | NCTTCAGGGT CCTCAGGCTT | CTGGGNCAGG GGGTAGATTT | 180 |
| 50 | TATTTANCTA NGGNTACTTT TNGTTTCCCG AGGGNCCTGC | TATATGATGG | GTGCTTTGAG | TGTNATTNAG | CAGGNTCTCT | |

| | SEQ ID NO:3891 |
|----|--|
| | SEQUENCE LENGTH: 356 |
| | SEQUENCE TYPE: nucleic acid |
| 5 | TOPOLOGY: linear |
| | CLONE: HUMGS04615 |
| | SEQUENCE DESCRIPTION: |
| | GATCAACCCA CATTAGAGTG TCTAAGGACT CCTGAGAATT CCTGTTACAG TAAACAAAAC 6 |
| 10 | TAACGTAATC TACCATTTCC TACACTATTT GAGCATGGAA ATCATAGTCC CCACTCTGTG 12 |
| | AAAACTTAAC GCTTTTTGGA AGACATTTCT GTAGCATGTC AGTTTGGAGA AATGNNTGNG 18 |
| | CTACGCCTTG ATGAAAGAAC CGTGTTGGTG CTGCTAAGTT TAGCCATTAT GGTTTTNCCT 24 |
| | NTCTCTCTCT TAAGCCTTAT TCTTCAACTA AAAGATGAGG ATTAAGAGCA AGANGTTGGG 30 |
| | GGNNGATGTG AAAATAATTN TATGNGGTTG TCTAAAATAA AGAGTAGTTT CTTAAA 35 |
| 15 | |
| | SEQ ID NO:3892 |
| | SEQUENCE LENGTH: 355 |
| | SEQUENCE TYPE: nucleic acid |
| 20 | TOPOLOGY:linear |
| | CLONE: HUNGS04616 |
| | SEQUENCE DESCRIPTION: |
| | GATCTACAAA TGTACGTTGT TACAGGGCTG CTTCCTAAAG ATTTTTTTTA CCTCAGGTTT 6 |
| 25 | CTCTTAATAT AGTTCTCCAG TCACTGACCT TGAATTGACT TACATAAATT ACTGCCAATG 12 |
| 25 | TTTAAATTGC CCTTATGTTT ATATTTATTA TGTCAAGCCA ATTCGTACAT ACAATTTGGA 18 |
| | ATCAAATGTC ATAAGAATTT ATTATATAAA TTTNTCAAGA ATAAAAATGC CTCTCCAGCC 24 |
| | TTAAGTATTT ACATGCTCCC AGGTCATTGT CAGTTTATGG TATTATGTTG TTTTATTTAA 30 |
| | AGCATTGAAT TGATAGAAAA AATTGCTCTG TAATAAAAAT CTACTTTCAC ATAAA 35 |
| 30 | |
| | SEQ ID NO:3893 |
| | SEQUENCE LENGTH: 351 |
| | SEQUENCE TYPE: nucleic acid |
| 35 | TOPOLOGY:linear |
| | CLONE: HUMGSO4617 |
| | SEQUENCE DESCRIPTION: |
| | GATCTCATTC TTNTTATGGC TGCATAGTAT TCCATGGTGT CTATGTACCA CATTTNCTTN 6 |
| | ATCCGGTCCA CCACTGGTGG CATTTAGGTT GATTCATGTC TTTGCTATTG TGAATGGTGC 12 |
| 40 | TGCGATAAAC ATGCATCCAT GTGTCTTTAC AGCAGAACGA TTTATATTCC TTTGGGTATT 18 |
| | TTTTTTGAGT ATAGTAATAG GNNNNNNGGG TGGAGTGGCA GTTCTGTTTT AAGTTCTCTG 24 |
| | GGAAATCACC AAACTGCTTT CCACAGCAGA TGAACTAGTT TACACTCCCA CCAGCAGTGT 30 |
| | ATAAGTGTTC CCTTTTCTCT GCAACCTCAC CAGCATCTGT TATTTTTAGA N 35 |
| 45 | |
| | SEQ ID NO:3894 |
| | SEQUENCE LENGTH: 350 |
| | SEQUENCE TYPE:nucleic acid |
| 50 | TOPOLOGY: linear |
| JU | CLONE: HUMGS04618 |
| | SEQUENCE DESCRIPTION: |

| | GATCTTCTTG TAAGCACATC | CAGAGTGAGA | CTTTTCTATG | TTTGAAAGAA | GAATGTGTGT | 60 |
|----|-----------------------|------------|------------|------------|------------|-----|
| | ACATTTCAAG AATTTGGGTT | | | | | |
| | CGTTTGATTT TTGACACATA | | | | | |
| 5 | GGGGCCAGCT CTGTGTAGGA | | | | | |
| | CTAAACTCCA ACCCCAGNCA | | | | | |
| | AACACATGCA NNNNCCGGNA | | | | | 350 |
| 10 | and the No appr | | | | | |
| 10 | SEQ ID NO:3895 | | | | | |
| | SEQUENCE LENGTH: 348 | | | | | |
| | SEQUENCE TYPE:nucleic | acid | | | | |
| | TOPOLOGY: linear | | | | | |
| 15 | CLONE: HUMGS04619 | | | | | |
| | SEQUENCE DESCRIPTION: | | | | | |
| | GATCCATAGG AGGGTAAAAT | | | | | |
| | CTAAAGCATA TCCAGGAATT | | | | | |
| 00 | AAGTTTTAAT ACTGAATAGG | | | | | |
| 20 | GAGTATTTAC TTGTGTACCC | | | | | |
| | GTTTAACAAT GCAGGTAGCT | | | | AAACAGGCTA | |
| | AGAGAGATTA ANTTAGTGGC | CCAAGGTCAG | AAAGCTCGTA | ATTCTTGN | | 348 |
| 25 | SEQ ID NO:3896 | | | | | |
| | SEQUENCE LENGTH: 347 | | | | | |
| | SEQUENCE TYPE:nucleic | acid | | | | |
| | TOPOLOGY: linear | | | | | |
| | CLONE: HUMGS04620 | | | | | |
| 30 | SEQUENCE DESCRIPTION: | | | | | |
| | GATCCCAAAT ACTGCCATTG | TGTTGTCTAC | TTATGAGTTA | ATTGTGTACC | TGTTAGAAGA | 60 |
| | CCGTACTCAG TAACAGGCCG | GAAAATTGTG | CTCTAGAAGA | ATAAAACTGA | AAAACTCTAG | 120 |
| | AGAATTTTTT TTCCCCATTG | ATGTTTAGAA | AGTTTGAGAC | TGAAACAGGA | AAGGCCATAA | 180 |
| 35 | AATATCTGGT TCATATCACC | TGTTGGACAT | TTCCTTTTGG | ATTCATGCTT | TCTGGAAGGT | 240 |
| | TTAAATTCAT TAACGTTAAT | AGTTAATTAT | AACTNTTTNT | TTAACTTAAG | AGGATTCAGG | 300 |
| | GTTAAGCACC AACTAAATTA | AATCATGCTA | TTTAATTTAN | GTATAAA | | 347 |
| | SEQ ID NO:3897 | | | | | |
| 40 | SEQUENCE LENGTH: 345 | | | | | |
| | SEQUENCE TYPE:nucleic | acid | | | | |
| | TOPOLOGY:linear | | | | | |
| | CLONE: HUMGS04621 | | | | | |
| 45 | SEQUENCE DESCRIPTION: | | | | | |
| 40 | GATCTAGAAT CTNTNCTNGG | NTAAGCATAT | AGGATGCCAC | TTCTTGCTAC | CTCCACAGCA | 60 |
| | ATACATCACC TGGACAGCTT | | | | | |
| | GCCCATTCTG GTACTGAGAA | | | | | |
| | TATNACTTTT ACCTGATTTC | | | | | |
| 50 | AGGAAAAGCA ACTATTTTC | | | | | |
| | AGTTTTCCTG GAGTTGTATT | | | | | 345 |
| | | | | | | |

| | SEQ ID NO:3898 | | | | | |
|----|-----------------------|------------|---------------|------------|------------|------|
| | SEQUENCE LENGTH: 342 | | | | | |
| | SEQUENCE TYPE:nucleic | acid | | | | |
| 5 | TOPOLOGY: linear | | | | | |
| | CLONE: HUMGS04623 | | | | | |
| | SEQUENCE DESCRIPTION: | | | | | |
| | GATCAGTGTA CTGTTACCCG | GACATACCTA | TTCCTTCACA | AGTTCTGGTT | CTTCAGTGCT | 60 |
| | GCTTACTATT TTGGTAACTG | | | | | |
| 10 | TGTTGTAAAG GGAAGAAATC | | | | | |
| | GATGAGCCCT CTGTCTATTC | | | | | |
| | CTGAATATCT GTNATGCATT | | | | | |
| | TTCATCAAAA ATGGGAGCAT | | | | 01.210001 | 342 |
| 15 | | | 0011000111111 | | | 0.12 |
| | SEQ ID NO:3899 | | | | | |
| | SEQUENCE LENGTH: 410 | | | | | |
| | SEQUENCE TYPE:nucleic | acid | | | | |
| 20 | TOPOLOGY:linear | | | | | |
| 20 | CLONE: HUMGS04624 | | | | | |
| | SEQUENCE DESCRIPTION: | | | | | |
| | GATCTGGTGC CCCTCTTCTC | CTGGATTCAC | ATCCCCACCC | AGGGCCCGCT | TTTACTAAGT | 60 |
| | GTTCTGCCCT AGATTGGTTC | | | | | |
| 25 | TATATTTGAT ATACTTCTGC | | | | | |
| | CATCCTACTG CTTTGAACTT | | | | | |
| | AGAAAAATGA GGATTGCCTT | | | | | |
| | GGNTTTTNAT ATATTCAATA | | | | | |
| 30 | TGAATGTGCT GGNAAATTNA | | | | | 410 |
| | | | | | | |
| | SEQ ID NO:3900 | | | | | |
| | SEQUENCE LENGTH: 338 | | | | | |
| | SEQUENCE TYPE:nucleic | acid | | | | |
| 35 | TOPOLOGY:linear | | | | | |
| | CLONE: HUNGS 04625 | | | | | |
| | SEQUENCE DESCRIPTION: | | | | | |
| | GATCAAGATA TAGAGCATCT | CCATTTATAA | AGTTCCTTCA | TGCTCCTTCC | CAGCCAGCAA | 60 |
| 40 | TTCTNCTTAC TGTCCTGCTG | | | | | |
| | TGTNCTTGAC TCATAAACAG | | | | | |
| | TTTNGCTTTA ATCATTACAT | | | | | |
| | ATTGCTGTGT AATATTCCAT | | | | | |
| | AGCACANTTG ATTCCTTATN | | | | | 338 |
| 45 | , | | | | | |
| | SEQ ID NO:3901 | | | | | |
| | SEQUENCE LENGTH: 238 | | | | | |
| | SEQUENCE TYPE:nucleic | acid | | | | |
| 50 | TOPOLOGY: linear | - | | | | |
| | | | | | | |

| | CLONE: HUMGS04626 | | | | | |
|-----|------------------------|--------------|------------|------------|------------|-----|
| | SEQUENCE DESCRIPTION: | | | | 211122122 | |
| 5 | GATCCACTGG TAAAGGGCAT | | | | | |
| | TGTGTGATTT CATAATACAA | | | | | |
| | CANATGITAA TAACAATATG | | | | | |
| | GANTTTTTAA ATGTATAGAT | GIAAACTITT | ANIAAANNII | GGGGTGTGGT | AACCCAAA | 238 |
| 10 | SEQ ID NO:3902 | | | | | |
| | SEQUENCE LENGTH: 331 | . , | | | | |
| | SEQUENCE TYPE:nucleic | acid | | | | |
| | TOPOLOGY: linear | | | | | |
| 15 | CLONE: HUNGS 04627 | | | | | |
| | SEQUENCE DESCRIPTION: | BB4 1445B411 | | mamaa | | |
| | GATCTCTATA AGTTATTAAT | | | | | |
| | ATCCCTTTGT ACCACCTATT | | | | | |
| | TTCCTTGCCA TGATGGTAAT | | | | | |
| 20 | AAAGATGAGG CGTCTCCTCA | | | | | |
| | TTGATGTACA TGGTAAGTCT | | | GCAAAANGGA | ACTITAGCCA | |
| | AATGGAAATA GCTGGATGCT | TTGNGAATTG | N | | | 331 |
| 0.5 | SEQ ID NO:3903 | | | | | |
| 25 | SEQUENCE LENGTH: 67 | | | | | |
| | SEQUENCE TYPE:nucleic | acid | | | | |
| | TOPOLOGY: linear | | | | | |
| | CLONE: HUMGS04628 | | | | | |
| 30 | SEQUENCE DESCRIPTION: | | | | | |
| | GATCCAAACT GTGTTGTTCT | TAAATCAAAA | ATTGGNTAAT | TTTTAATATN | TATGTATTAA | 60 |
| | TCACAAA | | | | | 67 |
| 35 | SEQ ID NO:3904 | | | | | |
| | SEQUENCE LENGTH: 327 | | | | | |
| | SEQUENCE TYPE: nucleic | acid | | | | |
| | TOPOLOGY: linear | | | | | |
| | CLONE: HUMGS04629 | | | | | |
| 40 | SEQUENCE DESCRIPTION: | | | | | |
| | GATCTGCCGG AGTCTTGAAA | TTCAGCTGAT | TGGAAGTGGT | TTCTTTGACT | TTCAAGGTCA | 60 |
| | TTCCCTATCA GTTACTACTA | | | | | |
| | CAAAATAGTG GATGCATTTC | AAACTTGACC | ACCTTTTCCT | ACCAGCTAGT | TAGAAGTCAT | 180 |
| 45 | CAATATTTCT CTACATTTNG | | | | | |
| | CATTATGATT AATAGTAGAC | | ACATTTNTGT | CACTCCCCAC | CTCCTCATAT | 300 |
| | TTNATAAAGG AGATATTTAC | CTTGAAA | | | | 327 |
| 50 | SEQ ID NO:3905 | | | | | |
| 50 | SEQUENCE LENGTH: 326 | | | | | |
| | CECHENCE TVDE | 0014 | | | | |

| 5 | TOPOLOGY:linear CLONE:HUMGSO4630 SEQUENCE DESCRIPTION: GATCAAAGAC CAAAACATTT GTTGTTGATG AAATATTTAA TAAATAAAAC TGTTATTTIN GTTTAAAATT CTGCCAAACT TATTTNGGTT TATAGAATTG GGAAATAAAG CCACTGTATT | CTAGAGCATG GAATTTNAAA ATTACTTATA ANGGTTCTTA | ATATTTTAAA ATTNGTTTTT TGTNCTATTG | TGTTAAGGTG NGGGGGTATG TGTAACATAC | TAACATATGT ANCTACTAGA TTNCTNGAAA | 120 180 240 |
|-------------|--|--|--|--|--|-------------------|
| 15 | SEQ ID NO:3906 SEQUENCE LENGTH:325 SEQUENCE TYPE:nucleic TOPOLOGY:linear CLONE:HUMGS04631 | acid | | | | |
| 20 | SEQUENCE DESCRIPTION: GATCTAATTA AGCTAAATTT CAAAATGCAT TGAAATGTAT TTATATTTNC CTTGTGTGTC | TAGTGTTGAA | ACATACATGT | AAAGGTAGTT | GTGGAAATTG | |
| 25 | TGAATAAGGC TAAATGAATA TTTTAAAAAA ANCTATTGCA TTTAANTAAN TNTNNTACTT | AATTGTATCA | | | | |
| 30 | SEQ ID NO:3907 SEQUENCE LENGTH:324 SEQUENCE TYPE:nucleic TOPOLOGY:linear CLONE:HUMGS04632 | acid | | | | |
| 35 . | SEQUENCE DESCRIPTION: GATCTGGCCC GAGCTCTCCT TTTCTTTTGC CGAACGATGG CCTGAGCCGT TCTCCTGAGT | TTGCATCTCT CCCTGAGGGC | CGGACACAGT AGACACAGCT | GTACCCCCTC CCAGGGACCC | CCAAGCCCTC AGGCCGGCTG | 180 |
| 40 | CCACACCCNC GACACTNCTG GCACCTGTTC CNTTCCCTGA TAAAAGCAAT TGTGACANCT | CCTTACCTTN | | | | |
| 45 | SEQ ID NO:3908 SEQUENCE LENGTH:319 SEQUENCE TYPE:nucleic TOPOLOGY:linear CLONE:HUNGSO4633 SEQUENCE DESCRIPTION: | acid | | | | |
| 50 | GATCAAATAC CGAAATTGAA ATATAAAGCC CCAAGTGCTT AGATATGTAG AAGAAAACAT | TACCTTCTAA | AACATGCTTC | TCTATAGGTG | CAAAGTTATA | 120 |

| | AGGCCCAGTG CTGAGTNCTT TGTCCACTTA GTCACAC | ATC TTTTGTGGGA | ATGGGAAAGG | 240 |
|----|---|----------------|--------------|------|
| | AAGGAGACAG CCAAACTCTG ACAANGGCTT TTCCTTA | | | |
| | AGGGTTGATA TATTAATGN | | | 319 |
| 5 | | | | 0.20 |
| | SEQ ID NO:3909 | | | |
| | SEQUENCE LENGTH: 317 | | | |
| | SEQUENCE TYPE:nucleic acid | | | |
| 10 | TOPOLOGY: linear | | | |
| 70 | CLONE: HUMGS04634 | | | |
| | SEQUENCE DESCRIPTION: | | | |
| | GATCTGAGCA AAATGTGAAC TCAGTATGTT TACTATTO | CT CTTACTTGAA | AACTTTTTT | 60 |
| | CAAAAAAAGC ACAAATTAAA GTAGTAAATT CATATCCA | | | |
| 15 | AATATTTACC AAGTTCCTAA TATAAGTGAA GGNCCACT | | | |
| | TATGAATATG TGTGGCAGTG AAGAGAACAG GTCTTTCA | | | |
| | TINTITIAAA TACACTCTCT NATNITNCTA CITGITTI | | | |
| | GACAACTCTT ATTTGAN | | | 317 |
| 20 | | | | J11 |
| | SEQ ID NO:3910 | | | |
| | SEQUENCE LENGTH: 317 | | | |
| | SEQUENCE TYPE: nucleic acid | | | |
| | TOPOLOGY: linear | | | |
| 25 | CLONE: HUMGS04635 | | | |
| | SEQUENCE DESCRIPTION: | | | |
| | GATCTACTCA GATGTCATNA TACTCCATAC CTGCTTTT | CC CATGGCCGCC | CTACGGAAAA | 60 |
| | TCCCATCCAC AGAGGCCAGG GCTACCCAAG NCCCTCCA | | | |
| 30 | TGAACCTCCA TCCTCCCAGC CAGCTACAGT AGGGCCTC | | | |
| | GACAGTGTCA GCACTCATCT CCTCCTCCA CATTINTG | | | |
| | TTGACCTTTG TGGTCTTCTG TGATTATTTA TGCTGCCT | | | |
| | AATGTTTTCA ACTTAAA | oo maloominum | MII GABRITAN | 317 |
| | | | | 011 |
| 35 | SEQ ID NO:3911 | | | |
| | SEQUENCE LENGTH: 316 | | | |
| | SEQUENCE TYPE: nucleic acid | | | |
| | TOPOLOGY: linear | | | |
| 40 | CLONE: HUNGS04636 | | | |
| | SEQUENCE DESCRIPTION: | | | |
| | GATCAAAGGT TCTTCATTCA AAAAGAAGCA ATATCCTT | TT GCCTGATATG | GGGTGGGAAG | 60 |
| | GGTAGGTGGC GATGATATTT CAAATGAATT AGAAACCA | | | |
| 45 | AGAAATGGAC TGACCTAGAA GTTACAGGAC CAGAAACT | | | |
| | CGTGGCACCC AGCCCCACTT GGAGACATTA TTTTTCCA | | | |
| | GACATCTTCA CTGTCTGTTG CAAAGATTGG AATACGTA | | | |
| | ATATTTTAAA TACAAA | | | 316 |
| | | | | |
| 50 | SEQ ID NO:3912 | | | |
| | SEQUENCE LENGTH-216 | | | |

| 5 | SEQUENCE TYPE:nucleic TOPOLOGY:linear CLONE:HUMGS04637 SEQUENCE DESCRIPTION: | acid | | | | |
|----|---|--------------------------|--------------------------|--------------------------|--------------------------|-----|
| ŭ | GATCCACTGG TAAAGGGCAT TGTGTGATTT CATAATACAA | ACAAAAAGAA | AAAAANTTAA | ACAAATTCTT | GGAAATATCT | 120 |
| 10 | CAAATGTTAA TAACANTATG GANTTTTTAA ATGTATAGNT GNCTATGTTT TNNTTAACAT CTTAAGGTNC TTTAAA | GTAAACTTTT | AATAAAANTN | GGGGTGTGGT | AACCCNGNGG | 240 |
| 15 | SEQ ID NO:3913 SEQUENCE LENGTH:313 SEQUENCE TYPE:nucleic TOPOLOGY:linear CLONE:HUMGSO4638 | acid | | | | |
| 20 | SEQUENCE DESCRIPTION: GATCCACCTG CCTTGGCCTC CCAAACCATT TTTGTTTAAT GCCTTCATAG AAGGCCCAAG | TTCATTTCTA | CATGGTCGTC | AAACGTGCCT | ATCCAATGAA | 120 |
| 25 | AGGTTCCAGG AGGGCAGGGT CCTTGCCCTA TGCATTTCTT AAACATANAT AAA | | | | | |
| 30 | SEQ ID NO:3914 SEQUENCE LENGTH:312 SEQUENCE TYPE:nucleic TOPOLOGY:linear CLONE:HUMGS04639 | acid | | | | |
| 35 | SEQUENCE DESCRIPTION: GATCACCAGC TCACGTCATG TTTTTCTTCC TCCTCTCCCT ACTGGAGGAT GTGCTATGAG TGTTCCTCCT CTGCCTCCCC | TTTCTTTTTG TTTGCAAACA | GCCCTCCCTC GCTGGACTGT | CCTCCCTCTN CAGGCTGCTT | CTGCCATGTA TTTTTCCAGA | 180 |
| 40 | CCTTGGAGCA CTGAGCACCA GAGAGCGTGA AA | | | | | |
| 45 | SEQ ID NO:3915 SEQUENCE LENGTH:311 SEQUENCE TYPE:nucleic TOPOLOGY:linear CLONE:HUMGSO4640 SEQUENCE DESCRIPTION: | acid | | | | |
| 50 | GATCTAGAGG AAGTACAGCC GTGCACCCAA ACACTCGATA | | | | | |

| | TAAAACAGCT ACATACAACC | TAGTACCCTT | GANGTCAGAC | AGACATTTCA | GTTGCTTACC | 180 |
|---------------|-----------------------|------------|------------|--------------------|------------|-----|
| | TCCAGTACTG AGCCTTGCTT | TGGGAAACTA | AAAGATTTAG | ACCAAGTCAC | TGCCAGTTTT | 240 |
| | NGCCTTNGTN GCATTTNGTA | CAGTTTTTAT | ATNTNGGATA | TCTTGTAAAT | AAAGACAGCC | 300 |
| 5 | AGCTTTTCAA A | | | | | 311 |
| | SEQ ID NO:3916 | | | | | |
| | SEQUENCE LENGTH: 308 | | | | | |
| 10 | SEQUENCE TYPE:nucleic | acid | | | | |
| | TOPOLOGY:linear | | | | | |
| | CLONE: HUMGS04641 | | | | | |
| | SEQUENCE DESCRIPTION: | | | | | |
| 16 | GATCAAATCT AAAATAAGTA | TAATGCATTG | TAATTCCAGA | GATAAATCCT | AGACCCTTCT | 60 |
| 15 | TGGCCTCCTT CTNACATAAT | TCTAATCCTA | CAGTCTCAGA | ${\tt GATGCTGTTG}$ | TATCCTGCCC | 120 |
| | CCCAACCCCA TGATAGTNAT | AGTGGTTTTT | GCCTTGAAGG | ${\tt AATTGCTTTG}$ | TATTTAGCTT | 180 |
| | TTCCCCCTCT AGATTTCTAG | TTCCTTTTCA | GTATTGGATT | ${\bf GGATTTGAGA}$ | TTTGATTAAC | 240 |
| | CTAGTACTCA GGTTCAGATG | CTCGCCTCTT | TGCAATTTTA | ACACTCATTC | GACAATAAAG | 300 |
| 20 | TCAGTNGN | | | | | 308 |
| | SEQ ID NO:3917 | | | | | |
| | SEQUENCE LENGTH: 306 | | | | | |
| 25 · | SEQUENCE TYPE:nucleic | acid | | | | |
| 20 | TOPOLOGY: linear | | | | | |
| | CLONE: HUMGS04642 | | | | | |
| | SEQUENCE DESCRIPTION: | | | | | |
| | GATCTAATGC ATCCTATATC | CAGTAAGTAG | AATTATCTCT | TCATCTGGGA | CCTGGAAATC | 60 |
| 30 | CTGAAATAAA AAAGGATAAT | GCAATAAACA | CAGTTGCAGG | AAAGTATGTT | AGCTATATAC | 120 |
| | TATGAAGTAC TCTTAGTTTA | CTTAŢGTTGA | ATGGCTTAGC | TATTAATACT | CAAATTGAGT | 180 |
| | TAAAATGAAA ATTCCTCCTT | AAAAAATCAA | ACGTAATATG | TATTACATTT | CATGGTACAT | 240 |
| | TAGTAGTTCT TTGTATATTG | AATAAATACT | AAATCACCTA | GGTGTCTATG | TTCTATCACA | 300 |
| 35 | TCTAAA | | | | | 306 |
| | | | | | | |
| | SEQ ID NO:3918 | | | | | |
| | SEQUENCE LENGTH: 306 | | | | | |
| | SEQUENCE TYPE:nucleic | acid | | | | |
| 40 | TOPOLOGY: linear | | | | | |
| | CLONE: HUNGS 04643 | | | | | |
| | SEQUENCE DESCRIPTION: | | | | | |
| | GATCAGCTGC AGCAGGNTGG | GTCCCTCTGC | ATCTGTCCAT | CACTGCGACT | GATGGCAATG | 60 |
| 45 | ACTGAGTATA ACACCTTTCT | TCATGGTCAA | CTCTACCCAG | GAACCACGTA | GGGAAGGAAA | 120 |
| | TTCTGGAAAA CAGCTCCCAG | CCTTAGCCAA | CTTGACATAT | CATAATCCAA | CAGANCTCAA | 180 |
| | CCTCTACCAA CTTGGAAATC | ATGTACATTT | GTCAGGACTG | TATTTAATTT | CCACATAGAG | 240 |
| | AGAAAGCAAA ATTATACTTT | TGACCAAACT | AATAGANTTA | TCCATTAAAC | ANACAAAACT | 300 |
| 50 | GTGAAA | | | | | 306 |
| 50 | | | | | | |

55

SEQ ID NO:3919

| 5 | SEQUENCE LENGTH: 306 SEQUENCE TYPE: nucleic TOPOLOGY: linear CLONE: HUMGS04644 SEQUENCE DESCRIPTION: | acid | | | | |
|----|--|--------------------------|--------------------------|--------------------------|--------------------------|------------|
| 10 | GATCCTCCCA GCTCTGTCTC GCTAAGAATA TGTGCTTTTA AAGCATAAAT ATCATGATTT | AATCCCATAA | GGAAAAAAT | ATTTTTGGTA | AATAAAATTA | 120 |
| 70 | CTGAATGACT AAAANGTAGT AATGCTGCAT TTTATTTTNC CCTGTN | TTTGGTTAAA | GAGAGTTCTA | GTTTCCATGA | GGNCTCTGAC | 240 |
| 15 | SEQ ID NO:3920 SEQUENCE LENGTH:304 SEQUENCE TYPE:nucleic TOPOLOGY:linear | acid | | | | |
| 20 | CLONE:HUMGS04645 SEQUENCE DESCRIPTION: GATCCTGTTA TGAAAAGCCC | | | | | |
| 25 | ATAAGAAAGC ATTCTGCATT GCAAAGTTGG TGTGAGAGGA ATGTAAANCT GTAGTATGAA ACTTTTCCAA GAGAGTGNAG GAAA | TAAAGCTGAT TTGGCCTAGG | ATACATAATC NGCAGCAGCT | TGAGGAGTTC NAGGGCATAG | ATGAAAATTC NGACTTTAAG | 180 240 |
| 30 | SEQ ID NO:3921 SEQUENCE LENGTH:301 SEQUENCE TYPE:nucleic TOPOLOGY:linear | acid | | | | |
| 35 | CLONE:HUMGSO4646 SEQUENCE DESCRIPTION: GATCAAGTAA TTCTTTCACT | AGGTTGGGTT | TGGGGAGGGG | GGAAAAGAGG | GGCTTTTCCT | 60 |
| 40 | AGGAGAACGA TAAGAAATGG GTGAAAGTCA GAATCGCCTC TATTTTAAGT TTGAAAACTT CATTTGTGCA CGTGTATAGC A | AGCATTTCCA TAACAATGAA | TGACGCACAT GGGGAAGGGG | TATGCAAATC AAGNTTTCCA | TNTTTAGCAC CCAACTGANT | 180 240 |
| 45 | SEQ ID NO:3922 SEQUENCE LENGTH:301 SEQUENCE TYPE:nucleic TOPOLOGY:linear | acid | | | | |
| 50 | CLONE: HUMGSO4647 SEQUENCE DESCRIPTION: GATCTGCCTG CCTCAGCCTC | CCAAAGTGCT | GAGATTAGAG | ACGTAAGCCA | CCATGCGTGG | 60 |

| 5 | CCAATAAGAC TGACTTTTAA AGGTTATATT AGCCTCATAA AGTCTGCTAA GTATGAGAAC TGTCTAGACC TTATGGAAAT N | AAGGAGTTAA TCTCTATTTC | GAAGTGNTCG ATGAATGATT | CTCTTTCTAT GATAAAACTC | TTTCTGAAGG TCTTGGAAAC | 180 240 |
|----|---|--|--|--|--|-------------------|
| 10 | SEQ ID NO:3923 SEQUENCE LENGTH:299 SEQUENCE TYPE:nucleic TOPOLOGY:linear CLONE:HUMGS04648 | acid | | | | |
| 15 | SEQUENCE DESCRIPTION: GATCTCAGTT GGATAGTTGT CAGGATGTCA AATACTAATG TAGTTTTTCA GTGCTTTAAT ACTGTAACTN CAGTGAAACT TTACACTACT TANTTCAGTA | ACATAAGAGC ATTTGTAACT GAATTGTGCG | TCACTTACGT NAAATTTNAA ATTGANGCTT | GCCAAAATTC AACTCGTATT TTTGCTTATC | ACTTTTATAC TACAAACACT ATAGTATNTA | 120 180 240 |
| 20 | | | | | | |
| 25 | SEQ ID NO:3924 SEQUENCE LENGTH:293 SEQUENCE TYPE:nucleic TOPOLOGY:linear CLONE:HUMGS04649 | acid | | | | |
| 30 | SEQUENCE DESCRIPTION: GATCAGAAAG GTGAAATGTT TTTACATAAT TGTTTACCAC GTAATTGTTA TTCACTAGCT | TAGTTTTTCC | ACTAGCTTTT | TATTATATAT | GTTTAATTAT | |
| | AACTCTTGTG GCATAAGAAT GTGTTAGAAA TAGTCATTGA | | | | | 240 293 |
| 35 | SEQ ID NO:3925 SEQUENCE LENGTH:293 SEQUENCE TYPE:nucleic | | | O INGOINADI. | | |
| 40 | TOPOLOGY:linear CLONE:HUMGSO4650 SEQUENCE DESCRIPTION: | | CTC ACT A ACA | CCTCATCTCC | CAGAAGGAAA | 60 |
| 45 | GATCTGGTGA AGGCCTNCTG GGGAGCTATC TGGAATCTCC CATGACCTAA TCACCTTCCA TTTCATCATA TGAATTTTGG ATAGTCGAAA GTCAGTTTTG | CTTATAAGGG AAGGCGTCAC GACGGCATAT | CCCNNNNGCC CTCCTGGTAC TCAGTCCACA | ATTCATAAGG TGTCACCTTG CCAGGAAGTT | GCTGCACCCT GGCGTTACGA CTTGCACNTC | 120 180 |
| 50 | SEQ ID NO:3926 SEQUENCE LENGTH:292 SEQUENCE TYPE:nucleic | acid | | | | |

| | TOPOLOGY:linear CLONE:HUMGSO4651 | | | | | |
|----|-------------------------------------|------------|------------|------------|------------|-----|
| | SEQUENCE DESCRIPTION: | | | | | |
| 5 | GATCCACCCG TCGTCGCCTC | | | | | 60 |
| | CAACATATAA TTATTATACA | | | | | |
| | AAAAACTTAT CCCCACTCAA | | | | | |
| | GGTCAATATC TGGAAACAAT | | | | | |
| 10 | GTGCACCCAT ACCATGGAAT | ACTGTTCAGC | AATAAAATGG | TATGAAATGA | AA | 292 |
| | SEQ ID NO:3927 | | | | | |
| | SEQUENCE LENGTH: 291 | | | | | |
| | SEQUENCE TYPE:nucleic | acid | | | | |
| 15 | TOPOLOGY:linear | | | | | |
| | CLONE: HUMGS04652 | | | | | |
| | SEQUENCE DESCRIPTION: | | | | | |
| | GATCCTATCT AAAAATATGT | AGTTATTAAA | CATTCTGTGG | ATATTTGTNA | ATAAGGTAGT | 60 |
| 20 | TNCTATGGTC CGAATATCTG | GGCCTGCCCC | CCCAAATNAT | GCTGAAACCT | AATCACCAGT | 120 |
| | GTGATGGTAA TAGGAGGTGG | GACTGAGCTC | TGATGAATGA | GATTAGTGCC | CTTATAAATT | 180 |
| | ATGACCAAAA GAGCTCTTCA | CTCCTCCTAC | CATTTGAGGA | TACAGTGAGA | AGCCTTCATC | 240 |
| | TATGAACCAC AAAGTAGCCC | TCATCAGACA | CTGAATCAGC | CAGTGCCTTG | N | 291 |
| 25 | SEQ ID NO:3928 | | | | | |
| | SEQUENCE LENGTH: 290 | | | | | |
| | SEQUENCE TYPE:nucleic | acid | | | | |
| | TOPOLOGY: linear | | | | | |
| 30 | CLONE: HUMGS04653 | | | | | |
| | SEQUENCE DESCRIPTION: | | | | | |
| | GATCTCACAG AAGTTATTCA | ATCTCTAGGT | TGCTTTAGCA | TCTACTTGTG | TAGTGAGAAG | 60 |
| | AGTTATTTAC TTATATTGTG | | | | | |
| 05 | TTGCTAGCTA AACACAGTAG | AACTTGAATT | TTTTTTTNA | GAGGTTATTT | AATANCAAAA | 180 |
| 35 | TCAGGTTATT TGTGACTTGG | | | | | |
| | GAGTTGCCCA NTTTATGTCT | | | | | 290 |
| | SEQ ID NO:3929 | | | | | |
| 40 | SEQUENCE LENGTH: 287 | | | | | |
| | SEQUENCE TYPE: nucleic | acid | | | | |
| | TOPOLOGY: linear | | | | | |
| | CLONE: HUMGS04654 | | | | | |
| 45 | SEQUENCE DESCRIPTION: | | | | | |
| | GATCTGGGAT GTGAGTGTAT | CAAATCTTAT | CAAATCCATT | GACAAATCAG | TGGTGCTATA | 60 |
| | CTGGAAATGG CTACTCCTTT | | | | | |
| | GAATTTACAT NNNNCTGTAA | | | | | |
| | GGTGCCCAAG AATAATTCTG | | | | | |

55

287

GTACCAAGAG GTGAATATAA TTTGCATGTT NGNGTGCAGT AATTAAA

| | SEQ ID NO:3930 | | | | | |
|-----|-----------------------|-------------|------------|-------------------------|------------|-----|
| | SEQUENCE LENGTH: 290 | | | | | |
| | SEQUENCE TYPE:nucleic | acid | | | | |
| 5 | TOPOLOGY: linear | | | | | |
| | CLONE: HUMGS04655 | | | | | |
| | SEQUENCE DESCRIPTION: | | | | | |
| | | CCC LCCTCTT | 00m1011m00 | C. L. G. C. T. C. L. T. | 1011100000 | |
| | GATCCCAAGA TGACTGGGGT | | | | | 60 |
| 10 | TTGACATCAG TTCCTTTGTG | | | | | |
| | TGTGCCTGGG GGAGTTTTCC | | | | | |
| | TCCAGCTGCA CCAGAGCAAC | | | | | |
| | CTGTGGCATT GAAATGAGCA | CCTCCATTAA | AGTCTGAATC | AGTGCAGAAA | | 290 |
| 15 | ano in uo acce | | | | | |
| ,,, | SEQ ID NO:3931 | | | | | |
| | SEQUENCE LENGTH: 287 | | | | | |
| | SEQUENCE TYPE:nucleic | acid | | | | |
| | TOPOLOGY:linear | | | | | |
| 20 | CLONE: HUMGS04656 | | | | | |
| | SEQUENCE DESCRIPTION: | | | | | |
| | GATCCTGAAG GGAAGGGGCA | GGGATTTCTC | CTTCTTCTTG | GTCCTGGCTC | CCAAGGGCTT | 60 |
| | CTGTCTTCAT CTCTGCATGA | GCTCTCCTTC | CCAGAGACCA | ACTCTTTTTN | ATTTNATTTN | 120 |
| | ATTTNATTTT TNAATTTATG | TCTGGAGCCT | GGCTACTCTG | CATTTGGGNT | TGGGGATGCT | 180 |
| 25 | GGGTGGGTGT GTGGTCCATG | TTCAGCGTTC | TAGCAACACG | TGTGTGTGTG | TGTGTGTAAA | 240 |
| | GGCTATGCAG CCAAAATACC | ATCTGGCCAG | ACGGGCCCAC | CCACAAA | | 287 |
| | | | | | | |
| | SEQ ID NO:3932 | | | | | |
| 30 | SEQUENCE LENGTH: 286 | | | | | |
| | SEQUENCE TYPE:nucleic | acid | | | | |
| | TOPOLOGY:linear | | | | | |
| | CLONE: HUMGS04657 | | | | | |
| 35 | SEQUENCE DESCRIPTION: | | | | | |
| 35 | GATCACCTGT TCCTACAGTG | ACAACTGGAC | CTGGCCCGAA | CCCCTGGCAT | CTGGCAACAT | 60 |
| | TATTACCTGT CGAAACAGAA | GTAGAGATTT | GAAATAGAGG | ATGCCAGTTC | CCATTTCCTC | 120 |
| | CTGCTGTCTG GAAGGAAGTC | TGGCTTTCCA | GCCCAACTCT | AAGCTCATCT | TTACATACAA | 180 |
| | AATAAGGGTA TGTTTACATG | GAAAGCAAAA | ATAGAACCAT | GGATTTACAG | AAGGTTCCAT | 240 |
| 40 | AGCAGCAAAT ANCAGTGCTT | ATGAAATAAA | CATTTTAAAT | ATTAAA | | 286 |
| | | | | | | |
| | SEQ ID NO:3933 | | | | | |
| | SEQUENCE LENGTH: 283 | | | | | |
| 45 | SEQUENCE TYPE:nucleic | acid | | | | |
| | TOPOLOGY: linear | | | | | |
| | CLONE: HUMGS04658 | | | | | |
| | SEQUENCE DESCRIPTION: | | | | | |
| | GATCTAATTG TGAAATCGTT | CACCTTGTTA | AACATCTAAG | TAAGTCTGTA | GTCGCTCTGC | 60 |
| 50 | AAACAGCCAT TATATTTATT | TACTCTAGAA | GAAACTGTAG | AGTAGTAATT | CGTGCTAATG | 120 |
| | AGAAAAACAA AATACCATGT | | | | | |
| | | | | | | |

| | AAAACTAGAG CATGTATGTA | | | | ATCCCCAAGT | 240 |
|----|---|--------------|------------|------------|------------|-----|
| | TGTCCCTTTA CAGCCATCAA | TATATTTNAC | ACTCTGCGGC | AAA | | 283 |
| | | | | | | |
| 5 | SEQ ID NO:3934 | | | | | |
| | SEQUENCE LENGTH: 283 | | | | | |
| | SEQUENCE TYPE:nucleic | acid | | | | |
| | TOPOLOGY: linear | | | | | |
| 10 | CLONE: HUMGS04659 | | | | | |
| | SEQUENCE DESCRIPTION: | | | | | |
| | GATCTGAGTC CTAGGNNCGC | CCTCATTCAC | TAGCAGTAAG | AATTTAAGTG | GTGCATGGCA | 60 |
| | CATAGCACTG TACTAGATTC | TGCAGGGGCA | CAAACATAGA | GCCAAACACT | CTCCCTCTTG | 120 |
| | GAGAATTTCA GACCCAGAAA | | | | | |
| 15 | TAAAAGGCAA AGGGTATGTT | | | | | |
| | AAGATGGGTA GCTGGGCATC | | | | | 283 |
| | 101011111111111111111111111111111111111 | | | | | |
| | SEQ ID NO:3935 | | | | | |
| 20 | SEQUENCE LENGTH: 281 | | | | | |
| 20 | SEQUENCE TYPE:nucleic | acid | | | | |
| | TOPOLOGY: linear | acru | | | | |
| | CLONE: HUMGS04660 | | | | | |
| | SEQUENCE DESCRIPTION: | | | | | |
| 25 | GATCCACAGC TTGCAGGAGA | ል እርጥር አርጥርር | CCCCACACAC | ACGTAACAGG | GTGAGCACTG | 60 |
| | AAATAAGAGC ACGCTGGGGC | | | | | |
| | • | | | | | |
| | TTTTCTCCAT CATTAACCCA | | | | | |
| | GGGCTTCTTT GCAGTTTAAA | | | | ICAAACANNI | |
| 30 | CAGCAGAAGA ATAAAATNTT | TTTTCTGGNA | TATUTAGIAA | A | | 281 |
| | 470 ID NO 4004 | | | | | |
| | SEQ ID NO:3936 | | | | | |
| | SEQUENCE LENGTH: 280 | | | | | |
| 35 | SEQUENCE TYPE:nucleic | acıd | | | | |
| | TOPOLOGY: linear | | | | | |
| | CLONE: HUMGS04661 | | | | | |
| | SEQUENCE DESCRIPTION: | | | | | |
| 40 | GATCCAATCA CATGGCAAAT | | | | | 60 |
| 40 | GANCTGAAAC TTCATAGAAG | | | | | |
| | TAGGTAAGCT TTATATTTCC | | | | | |
| | TTTTATGAGT TGAAGTAACT | | | | AAAGCAAATA | 240 |
| | ATGGTTTCTT TGTTAACCAA | TAAAGCATAA | GANAATGAAA | | | 280 |
| 45 | | | | | | |
| | SEQ ID NO:3937 | | | | | |
| | SEQUENCE LENGTH: 278 | | | | | |
| | SEQUENCE TYPE:nucleic | acid | | | | |
| 50 | TOPOLOGY: linear | | | | | |
| 50 | CLONE: HUNGS04662 | | | | | |
| | SEQUENCE DESCRIPTION: | | | | | |

| | GATCTTTAAA TTTTTGTCCT | TAGTTAAGTT | CTGTATTTAG | TGAATTAATT | GCATCCTAAA | 60 |
|----|------------------------|------------|------------|------------|------------|-----|
| | AAGTCAAACT TGAAAAGCAC | ATTTTAAATG | GCAAATCTAT | TTTTTACATG | TTTGTGAAGT | 120 |
| | TTTTATTTTT TAGTAAACAG | ACCATCAGAA | GAGAACAATG | GTACAGAGCA | GGGGTCAGCA | 180 |
| 5 | GATGGATTTT GTANNGCATC | AACTTGTAAA | TATTTTCAAG | TTTATTAGCT | GTATGGCTCT | 240 |
| | GGTTTCTGTT CCCTGTTCCA | AATGTTAAAG | TCTACTGN | | | 278 |
| | SEQ ID NO:3938 | | | | | |
| 10 | SEQUENCE LENGTH: 301 | | | | | |
| | SEQUENCE TYPE:nucleic | acid | | | | |
| | TOPOLOGY:linear | | | | | |
| | CLONE: HUMGS04663 | | | | | |
| | SEQUENCE DESCRIPTION: | | | | | |
| 15 | GATCGACATT TAAAAAATGA | GGTGAAAGAA | AGCTATAGTG | GCATAGAAAA | AGTATAAAGC | 60 |
| | TCAGTTAGTT TTTTTATTAT | | | | | |
| | CAGATTTCAG AACATGTGTT | | | | | |
| | ACTITITNCT TTAAGACTIT | | | | | |
| 20 | AATTGCAAGT TTTCAATCTT | GGACTTTGAA | AACAGGATTA | AACGTTAGTA | TTCGTGTGAA | |
| | A · | | | | | 301 |
| | SEQ ID NO:3939 | | | | | |
| 25 | SEQUENCE LENGTH: 276 | | | | | |
| 20 | SEQUENCE TYPE: nucleic | acid | | | | |
| | TOPOLOGY:linear | | | | | |
| | CLONE: HUMGS04664 | | | | | |
| | SEQUENCE DESCRIPTION: | | | | | |
| 30 | GATCTCCCTT TTACAGATAT | CAGAAAGCAT | GAAAAAAATA | GAATTGGATT | TAATGCTTTG | 60 |
| | CAGATATTCT GTTTTTTTC | | | - | | |
| | TTTTCCTAGC TTTAGAAGCA | | | | | |
| | CAGCAGCATT TAGAACAGTT | | | ATATGTGTGT | TGGGGGGAAA | |
| 35 | GGAATTCACA CTGAATAAAT | TTTAGAAATA | ATTAAA | | | 276 |
| | SEQ ID NO:3940 | | | | | |
| | SEQUENCE LENGTH: 277 | | | | | |
| | SEQUENCE TYPE: nucleic | acid | | | | |
| 40 | TOPOLOGY:linear | | | | | |
| | CLONE: HUMGS 04665 | | | | | |
| | SEQUENCE DESCRIPTION: | | | | | |
| | GATCTTACTG CAAAGGAAAC | TGACAGAAGA | AAAAGAAAGT | GCTTTTGAAT | TTNTTTCCTC | 60 |
| 45 | TGCCTGACTA GACAATGATG | TTACTAAATG | CTTCAAAGCT | GAAGAATCTA | AATGTCGTCT | 120 |
| | TTGACTCAAG TACCAAATAA | TAATAATGCT | ATACTTAAAT | TACTTGTGAA | AAACAACACA | 180 |
| | TTTTAAAGAT TACGTGCTTC | TTGGTACAGG | TTTGTGAATG | ACAGTTTATC | GTCATGCTGT | 240 |
| | TAGTGTGCAT TCTAAATAAA | TATATATTCA | AATGAAA | | | 277 |
| 50 | SEQ ID NO:3941 | | | | | |
| | SEQUENCE LENGTH: 279 | | | | | |

| 5 | SEQUENCE TYPE:nucleic TOPOLOGY:linear CLONE:HUMGS04666 SEQUENCE DESCRIPTION: | acid | | | | |
|----------|--|---|--|--|--|--|
| | GATCCTAAGC CATAGACAGG TGACCATAAT GTGTTTAAAA ATACTCTGTT TTTAAGTATG | TGTGGTATGC | TCTTGAGATA | TTTAAAGTTT | TGGCAGTAAA | 120 |
| 10 | CTTCAGTATA GATTTGTTTT CATCCAAAAN TGCTTAATAA | | | TCTTAAGTGG | TAGGAAGCAA | 240 279 |
| 45 | SEQ ID NO:3942 SEQUENCE LENGTH:273 | | | | | |
| 15 | SEQUENCE TYPE:nucleic TOPOLOGY:linear CLONE:HUMGS04667 | acid | | | | |
| 20 | SEQUENCE DESCRIPTION: GATCAACTGG CTTTTCTCTA | TTATGACTTT | AGATGAATCG | TTTTAATAGA | TTTGCTAATG | 60 |
| | TTAAGACATC TCTGCATTTC TATACATCTC CTTTCAATGT | | | | | |
| | TTTATTTTGT GTTTCTTATC | | | | | 240 |
| 25 | GTATAATAAA AATAAGAGCT | TTAAATNGTG | AAA | | | 273 |
| | SEQ ID NO:3943 | | | | | |
| | • | | | | | |
| | SEQUENCE LENGTH: 268 SEQUENCE TYPE: nucleic | acid | | | | |
| 30 | SEQUENCE LENGTH:268 SEQUENCE TYPE:nucleic TOPOLOGY:linear | acid | | | | |
| 30 | SEQUENCE LENGTH:268 SEQUENCE TYPE:nucleic TOPOLOGY:linear CLONE:HUMGS04668 | acid | | | | |
| 30 | SEQUENCE LENGTH:268 SEQUENCE TYPE:nucleic TOPOLOGY:linear CLONE:HUMGSO4668 SEQUENCE DESCRIPTION: GATCGCGTCC AGATGGAAAA | CGGAAGCAGA | | | | 60 |
| 30 35 | SEQUENCE LENGTH:268 SEQUENCE TYPE:nucleic TOPOLOGY:linear CLONE:HUMGS04668 SEQUENCE DESCRIPTION: GATCGCGTCC AGATGGAAAA GTGCAACACA TCCATCTGAA | CGGAAGCAGA AACACTCGGA | AGTCTGGTGC | TTGGAGAGGG | TGCCATTGTC | 120 |
| | SEQUENCE LENGTH:268 SEQUENCE TYPE:nucleic TOPOLOGY:linear CLONE:HUMGS04668 SEQUENCE DESCRIPTION: GATCGCGTCC AGATGGAAAA GTGCAACACA TCCATCTGAA TCTTGTACAT AAGGTCATGA | CGGAAGCAGA AACACTCGGA CGTGTCTATG | AGTCTGGTGC TCAAAAGTTC | TTGGAGAGGG TTATATATTT | TGCCATTGTC CTTTTATAAG | 120 180 |
| | SEQUENCE LENGTH:268 SEQUENCE TYPE:nucleic TOPOLOGY:linear CLONE:HUMGS04668 SEQUENCE DESCRIPTION: GATCGCGTCC AGATGGAAAA GTGCAACACA TCCATCTGAA | CGGAAGCAGA AACACTCGGA CGTGTCTATG ATGTTTTTAG | AGTCTGGTGC TCAAAAGTTC | TTGGAGAGGG TTATATATTT | TGCCATTGTC CTTTTATAAG | 120 180 |
| | SEQUENCE LENGTH:268 SEQUENCE TYPE:nucleic TOPOLOGY:linear CLONE:HUMGS04668 SEQUENCE DESCRIPTION: GATCGCGTCC AGATGGAAAA GTGCAACACA TCCATCTGAA TCTTGTACAT AAGGTCATGA CTGAAAGAAG GTCTATTTT | CGGAAGCAGA AACACTCGGA CGTGTCTATG ATGTTTTTAG | AGTCTGGTGC TCAAAAGTTC | TTGGAGAGGG TTATATATTT | TGCCATTGTC CTTTTATAAG | 120 180 240 |
| 35 | SEQUENCE LENGTH:268 SEQUENCE TYPE:nucleic TOPOLOGY:linear CLONE:HUMGS04668 SEQUENCE DESCRIPTION: GATCGCGTCC AGATGGAAAA GTGCAACACA TCCATCTGAA TCTTGTACAT AAGGTCATGA CTGAAAGAAG GTCTATTTT CAAACAATAA AAATAACGAA SEQ ID NO:3944 SEQUENCE LENGTH:268 | CGGAAGCAGA AACACTCGGA CGTGTCTATG ATGTTTTTAG AAGTGAAA | AGTCTGGTGC TCAAAAGTTC | TTGGAGAGGG TTATATATTT | TGCCATTGTC CTTTTATAAG | 120 180 240 |
| 35 | SEQUENCE LENGTH:268 SEQUENCE TYPE:nucleic TOPOLOGY:linear CLONE:HUMGS04668 SEQUENCE DESCRIPTION: GATCGCGTCC AGATGGAAAA GTGCAACACA TCCATCTGAA TCTTGTACAT AAGGTCATGA CTGAAAGAAG GTCTATTTT CAAACAATAA AAATAACGAA SEQ ID NO:3944 | CGGAAGCAGA AACACTCGGA CGTGTCTATG ATGTTTTTAG AAGTGAAA | AGTCTGGTGC TCAAAAGTTC | TTGGAGAGGG TTATATATTT | TGCCATTGTC CTTTTATAAG | 120 180 240 |
| 35 | SEQUENCE LENGTH:268 SEQUENCE TYPE:nucleic TOPOLOGY:linear CLONE:HUMGS04668 SEQUENCE DESCRIPTION: GATCGCGTCC AGATGGAAAA GTGCAACACA TCCATCTGAA TCTTGTACAT AAGGTCATGA CTGAAAGAAG GTCTATTTT CAAACAATAA AAATAACGAA SEQ ID NO:3944 SEQUENCE LENGTH:268 SEQUENCE TYPE:nucleic | CGGAAGCAGA AACACTCGGA CGTGTCTATG ATGTTTTTAG AAGTGAAA | AGTCTGGTGC TCAAAAGTTC | TTGGAGAGGG TTATATATTT | TGCCATTGTC CTTTTATAAG | 120 180 240 |
| 35 40 | SEQUENCE LENGTH:268 SEQUENCE TYPE:nucleic TOPOLOGY:linear CLONE:HUMGS04668 SEQUENCE DESCRIPTION: GATCGCGTCC AGATGGAAAA GTGCAACACA TCCATCTGAA TCTTGTACAT AAGGTCATGA CTGAAAGAAG GTCTATTTT CAAACAATAA AAATAACGAA SEQ ID NO:3944 SEQUENCE LENGTH:268 SEQUENCE TYPE:nucleic TOPOLOGY:linear CLONE:HUMGS04669 SEQUENCE DESCRIPTION: | CGGAAGCAGA AACACTCGGA CGTGTCTATG ATGTTTTTAG AAGTGAAA | AGTCTGGTGC TCAAAAGTTC GTCTATGAAT | TTGGAGAGGG TTATATATTT GGAACGTTGT | TGCCATTGTC CTTTTATAAG AAATGCTTGT | 120 180 240 268 |
| 35 40 | SEQUENCE LENGTH:268 SEQUENCE TYPE:nucleic TOPOLOGY:linear CLONE:HUMGSO4668 SEQUENCE DESCRIPTION: GATCGCGTCC AGATGGAAAA GTGCAACACA TCCATCTGAA TCTTGTACAT AAGGTCATGA CTGAAAGAAG GTCTATTTT CAAACAATAA AAATAACGAA SEQ ID NO:3944 SEQUENCE LENGTH:268 SEQUENCE TYPE:nucleic TOPOLOGY:linear CLONE:HUMGSO4669 SEQUENCE DESCRIPTION: GATCTNGTGC CTGGAAATAG | CGGAAGCAGA AACACTCGGA CGTGTCTATG ATGTTTTTAG AAGTGAAA acid CCTGAGGTGG | AGTCTGGTGC TCAAAAGTTC GTCTATGAAT CTCAGGAAGC | TTGGAGAGGG TTATATATTT GGAACGTTGT | TGCCATTGTC CTTTTATAAG AAATGCTTGT TGCCAGACCA | 120 180 240 268 |
| 35 40 | SEQUENCE LENGTH:268 SEQUENCE TYPE:nucleic TOPOLOGY:linear CLONE:HUMGS04668 SEQUENCE DESCRIPTION: GATCGCGTCC AGATGGAAAA GTGCAACACA TCCATCTGAA TCTTGTACAT AAGGTCATGA CTGAAAGAAG GTCTATTTT CAAACAATAA AAATAACGAA SEQ ID NO:3944 SEQUENCE LENGTH:268 SEQUENCE TYPE:nucleic TOPOLOGY:linear CLONE:HUMGS04669 SEQUENCE DESCRIPTION: | CGGAAGCAGA AACACTCGGA CGTGTCTATG ATGTTTTTAG AAGTGAAA acid CCTGAGGTGG CCCAAGGCCC | AGTCTGGTGC TCAAAAGTTC GTCTATGAAT CTCAGGAAGC CAGGGCTGGA | TTGGAGAGGG TTATATATTT GGAACGTTGT GGAGAAAGGG AGNAGACCAA | TGCCATGTC CTTTTATAAG AAATGCTTGT TGCCAGACCA GGGGCAGCCG | 120 180 240 268 |
| 35 40 | SEQUENCE LENGTH:268 SEQUENCE TYPE:nucleic TOPOLOGY:linear CLONE:HUMGSO4668 SEQUENCE DESCRIPTION: GATCGCGTCC AGATGGAAAA GTGCAACACA TCCATCTGAA TCTTGTACAT AAGGTCATGA CTGAAAGAAG GTCTATTTT CAAACAATAA AAATAACGAA SEQ ID NO:3944 SEQUENCE LENGTH:268 SEQUENCE TYPE:nucleic TOPOLOGY:linear CLONE:HUMGSO4669 SEQUENCE DESCRIPTION: GATCTNGTGC CTGGAAATAG TTCTCTGGCG GGGACCAGGG | CGGAAGCAGA AACACTCGGA CGTGTCTATG ATGTTTTTAG AAGTGAAA acid CCTGAGGTGG CCCAAGGCCC TTCCTCTCC | AGTCTGGTGC TCAAAAGTTC GTCTATGAAT CTCAGGAAGC CAGGGCTGGA ACCCAATTCC | TTGGAGAGGG TTATATATTT GGAACGTTGT GGAGAAAGGG AGNAGACCAA CCCACGCGGT | TGCCAGACCA GGGGCAGCCG TCCATGTTTT | 120 180 240 268 60 120 180 |

| | SEQ ID NO:39 SEQUENCE LENG SEQUENCE TYP | GTH: 267 | aaid | | | | |
|----|---|-------------|--------------|------------|--------------|-------------|-----|
| 5 | TOPOLOGY: line CLONE: HUMGSO- SEQUENCE DESC | ear 4670 | aciu | | | • | • |
| | GATCAGATGG T | | CAACACGAGG | CCAATATCTG | TATGTNAAGG | AGACAGAAAC | 60 |
| 10 | ATCAATGTTT G | | | | | | |
| 10 | CTGTTAATTT T | | | | | | |
| | CAAAACAAAC CA | | | | | | |
| | CAATAAAGGA GA | | | | | | 267 |
| 15 | SEQ ID NO:394 | 46 | | | | | |
| | SEQUENCE LENG | GTH:266 | | | | | |
| | SEQUENCE TYPE | E:nucleic | acid | | | | |
| | TOPOLOGY: line | ear | | | | | |
| 20 | CLONE: HUMGSO4 | 4671 | • | | | | |
| | SEQUENCE DESC | CRIPTION: | | | | | |
| | GATCCTGTGA AA | | | | | | 60 |
| | CCACAGCTAT GO | | | | | | |
| 25 | GCCTCCACAG CC | | | | | | |
| | AGGCTGCAGC AC | | | TTCTTGTATT | AAGGAATTTT | AAACTAAATA | 240 |
| | AAATGTATGT TO | GGAGATACT | GTTAAA | | | | 266 |
| 20 | SEQ ID NO:394 | | | | | | |
| 30 | SEQUENCE LENG | | | | | | |
| | SEQUENCE TYPE | | acid | | | | |
| | TOPOLOGY: line | | | | | | |
| | CLONE: HUMGSO4 | | | | | | |
| 35 | SEQUENCE DESC | | TOTTOO + 00T | 0200001001 | 0.000.000.00 | C+#00000mam | 00 |
| | GATCCCTAGG TO | | | | | | 60 |
| | GGGAAATTAG TA | | | | | | |
| | TACCTAAGCA AA | | | | | | |
| 40 | AACCAGGGGT TN | | | AAACAAIGII | MACATITI | UGIAGICIIC | 265 |
| | SEQ ID NO:394 | 48 | | | | | |
| | SEQUENCE LENG | | | | | | |
| 45 | SEQUENCE TYPE | E:nucleic | acid | | | | |
| | TOPOLOGY: line | ear | | | | | |
| | CLONE: HUMGS 04 | 4673 | | | | | |
| | SEQUENCE DESC | CRIPTION: | | | | | |
| 50 | GATCTAGNAA AT | TGCATATAT | TTAGCGGGTA | TTTGAAAGAT | AGAAGCATTA | TTTATAACTG | 60 |
| 50 | AAGAGTATAA CA | ACTTATCTN | CTTAAGTAAA | TGCTCTCATA | ACTTGTATAC | ATTTTTNCAG | 120 |

| | GTACAAATTC AAAAGTATGT | AAGCATTGTA | TAATGTGACA | ATTGTATAAT | TTATGTAATC | 180 |
|----|---|------------|------------|------------|------------|-----|
| | TGATGCATGA NTCAGAATTT | TTATATAATA | TATGATTATN | GACTTATAGT | TGATTAANGT | 240 |
| | GTTTAANCTT AAAANANAAN | ANNNN | | | | 265 |
| 5 | | | | | | |
| | SEQ ID NO:3949 | | | | | |
| | SEQUENCE LENGTH: 263 | | | | | |
| | SEQUENCE TYPE: nucleic | acid | | | | |
| 10 | TOPOLOGY: linear | | | | | |
| 10 | CLONE: HUMGS04674 | | | | | |
| | SEQUENCE DESCRIPTION: | | | | | |
| | GATCTCTAAA CTAGCTCTTT | TGTTAGTATC | GTCTCACAAA | CTGATTATTT | TCCTCTTTCT | 60 |
| | TTGGTAAGGT CAATAACTGG | | | | | 120 |
| 15 | TGAAGACTAA AATCTATTCA | | | | | |
| | CACAATAAAG TGAAAATCAA | | | | | |
| | AAGATGACAA GTCAGTTNTC | | | | | 263 |
| | initialization of the state of | 1001 | | | | 200 |
| 20 | SEQ ID NO:3950 | | | | | |
| 20 | SEQUENCE LENGTH: 261 | | | | | |
| | SEQUENCE TYPE:nucleic | acid . | | | | |
| | TOPOLOGY: linear | aciu | | | | |
| | CLONE: HUMGS04675 | | | | | |
| 25 | SEQUENCE DESCRIPTION: | | | | | |
| | GATCCACACA CTACAGGAAA | CAGTTGGCTT | TCGAAATCCA | TOTTTOTOAT | ACCCCTCCAG | 60 |
| | CTGAACAATT TTCTGCATGG | | | | | |
| | GAAGCCTGGA GCTGGAGAAC | | | | | |
| 30 | TCCATTGGCT GTGTTACTGG | | | | | |
| | AATGGAGATA TGAAACTCAA | | ddiidacdau | AAACIGGGIC | AUAATAAAAA | 261 |
| | ARIUUNUNIN IUKANCIOAN | A | | | • | 201 |
| | SEQ ID NO:3951 | | | | | |
| | SEQUENCE LENGTH: 315 | | | | | |
| 35 | SEQUENCE TYPE:nucleic | anid | | | | |
| | TOPOLOGY: linear | acid | | | | |
| | CLONE: HUMGS04676 | | | | | |
| | SEQUENCE DESCRIPTION: | | | | | |
| 40 | GATCTGTTTG TAATACAAGG | TATTTCCNCT | TCTCTTTAAC | TGTATAGTGA | TTTGTGGGCA | 60 |
| | GGCTGCAGGA GCCAGGATAA | | | | | |
| | CACTCTCCNG CAAAGGGATG | | | | | |
| | TCCTTTGGAN GGNGTGAAAA | | | | | |
| | ACTGGTGTTC CCAGCCGTTC | | | | | |
| 45 | | ACATOTOTAC | CONTICICIO | CCTIANGGTT | TICTIAGGGN | |
| | GCNGGNGGNT GNNTN | | | | | 315 |
| | CPO ID NO. 2052 | | | | | |
| | SEQ ID NO:3952 SEQUENCE LENGTH:258 | | | | | |
| 50 | • | aaid | | | | |
| | SEQUENCE TYPE: nucleic | aciu | | | | |
| | TOPOLOGY:linear | | | | | |

| | CLONE: HUNGS04677 | | |
|----|---|------------|-----|
| | SEQUENCE DESCRIPTION: | | |
| | GATCTAAACT TGATATGTTA AATTTAAATT TAATTTCCCC AAGTGTGAGT AC | TATATGTN | 60 |
| 5 | ATTGTAGATA ATTTGCAAAC TACAAAAAAT AAAAATAATT GGCTGGGCGT GG | TGGCTCAT 1 | 20 |
| | GCCTGTAATC CCGGCGCTTT GGGAGGCCGA GGTNGGTGGA CCACCTGGGG TC | AGGAGTTC 1 | 80 |
| | AGGACCGGCC TGGCCAACAT GGTGAAACCC GTCTCTGCTA AAGGTATAGA AG | CTNGCCGG 2 | 40 |
| | GTGTGGTGGT GGGCACCN | 2 | :58 |
| 10 | | | |
| | SEQ ID NO:3953 | | |
| | SEQUENCE LENGTH: 258 | | |
| | SEQUENCE TYPE: nucleic acid | | |
| 15 | TOPOLOGY: linear | | |
| 15 | CLONE: HUMGS04678 | | |
| | SEQUENCE DESCRIPTION: | | |
| | GATCCTCACT CAACGAAAAC TCGNTTGGAA ACTGTTCCGN CTGGCAGTCC TT | TTTTGTTG | 60 |
| | TTTTCCATCT CATTTCCCTT CCATCTGAAA GTGGCATTCA GCTGACTNGC TC | ATTTAGAC 1 | 20 |
| 20 | NGTTCACGGA GTCTGAATCT GCCAACGTGG TGTTGGAGGC TCCACCTTGA AA | AGGGCCAC 1 | 80 |
| | AGTCAGGGCA ACTTTCCCCA TACAGGAAAA CTTGAAAATT ACATCAACAG TC | TACGTCAC 2 | 40 |
| | AGCCAAATTA TATTTCCN | 2 | 58 |
| | CPO ID NO. 2054 | | |
| 25 | SEQ ID NO:3954 SEQUENCE LENGTH:257 | | |
| | SEQUENCE TYPE:nucleic acid | | |
| | TOPOLOGY: linear | | |
| | CLONE: HUMGS04679 | | |
| 30 | SEQUENCE DESCRIPTION: | | |
| | GATCCAGTGG CTGCAGCTTC AATCCCAGTG CTGNANTCAC ACATCCATTC TG | CCCTGGGG | 60 |
| | GACCCTGGAG CCTACTTGTG CGCTTTGCAT TTCATTGATT GACGNCTCCC TT | | |
| | ATTTACTONG COCCTACTAT GTACTAATGC TAGANGTTAG ATGTACAAAG AA | | |
| | TCATCCTCTA GGNACTCATA GGCTAATGGT GAGACACACA GACANACATC AT | | |
| 35 | AATANGCTAA GNGAAAA | | 57 |
| | | | |
| | SEQ ID NO:3955 | | |
| 40 | SEQUENCE LENGTH: 257 | | |
| 40 | SEQUENCE TYPE: nucleic acid | | |
| | TOPOLOGY: linear | | |
| | CLONE: HUMGS04680 | | |
| | SEQUENCE DESCRIPTION: | | |
| 45 | GATCTACAAG GCCACACAGA TAATTNCAAA TACATCTCAT TTCCTTCTGA TT | | |
| | GGNAGACCCC AAGGGGAAGG AGTTCTCATG GGNCACTATA ATCNATGAAG CT | | |
| | AATATAGANG GCAGATTTAA AGTTACCATT TTTTTTTAAA CACCAGCTAT GG | | |
| | AAATTGTACA AGCTGTCAGT ATCACCTGCA CATGAGCAAT TTAGTCTNNN GG | | |
| 50 | GAAGTTTAGG TCTTTNN | 2 | :57 |

SEQ ID NO:3956

| | SEQUENCE LENGTH: 256 | | | | | |
|----|--|--|--|--|--------------------------|--------------------------------|
| | SEQUENCE TYPE:nucleic | acid | | | | |
| | TOPOLOGY: linear | | | | | |
| 5 | CLONE: HUMGS04681 | | | | | |
| | SEQUENCE DESCRIPTION: | | | | | |
| | GATCTGCCCA CCTCGGCCTC | CCAAAGTGCT | GGGATTACAG | CCCTCACCAT | GAGTGCCCAG | 60 |
| | GCAGAGAAGT CCTACACCAC | | | | | |
| | TGGTACAGTA CTCCTGTTTG | | | | | |
| 10 | TGAAAGCTCT TTTCTGAGAG | | | | | |
| | | UCANCAUAU I | GIGIICIAIC | AIAAAIUAAU | CUCICIICAA | 256 |
| | GAACTTCCTG AGCAAA | | | | | 230 |
| | SEQ ID NO:3957 | | | | | |
| 15 | SEQUENCE LENGTH: 254 | | | | | |
| | SEQUENCE TYPE:nucleic | | | | | |
| | TOPOLOGY: linear | acru | | | | |
| | CLONE: HUMGS04682 | | | | | |
| •• | SEQUENCE DESCRIPTION: | | | | | |
| 20 | GATCCACCGT CGGATTCCGT | CTGCAGAGGA | CCACCTACCC | GCCCGTCACA | CCCACCAGGC | 60 |
| | CTCCCTGCTG TGCTTTAACA | | | | | |
| | TTTCAGTTTA AATTGTGTAC | | | | | |
| | GTGTGATTCA ATAAATTGCT | | | | | |
| 25 | TATATATTTA TAAA | IUIAAIIIAA | AAACIAIIIA | AINIIUMAAA | IAMINIAUI | 254 |
| | INININIIIN INAN | | | | | 207 |
| | SEQ ID NO:3958 | | | | | |
| | SEQUENCE LENGTH: 252 | | , | | | |
| 30 | SEQUENCE TYPE:nucleic | acid | | | | |
| | TOPOLOGY: linear | 501 4 | | | | |
| | CLONE: HUMGS04683 | | | | | |
| | SEQUENCE DESCRIPTION: | | | | | |
| | GATCTGTTTT AAAGTTGGGG | GGTGGGAAAT | TTAGCTGACT | AGGGACAAAC | ATGTAAACCT | 60 |
| 35 | ATTTTCCTAT GAAAAAAATT | | | | | |
| | ALILILALIAI GAAAAAAII | TTAAATGTCC | CACTTGAATA | ACGTAATTCT | TCATAGTTTT | 120 |
| | | | | | | |
| | TTTAATCTAT GGATAAATGG | AAACCTAATT | ATTTGTAATG | AATTATTTAG | ACAGTTCTAA | 180 |
| | TTTAATCTAT GGATAAATGG GCCCTGTCTT CTGGGAGTTA | AAACCTAATT | ATTTGTAATG | AATTATTTAG | ACAGTTCTAA | 180 |
| 40 | TTTAATCTAT GGATAAATGG | AAACCTAATT | ATTTGTAATG | AATTATTTAG | ACAGTTCTAA | 180 240 |
| 40 | TTTAATCTAT GGATAAATGG GCCCTGTCTT CTGGGAGTTA TTTTATAAGT AN | AAACCTAATT | ATTTGTAATG | AATTATTTAG | ACAGTTCTAA | 180 240 |
| 40 | TTTAATCTAT GGATAAATGG GCCCTGTCTT CTGGGAGTTA TTTTATAAGT AN SEQ ID NO:3959 | AAACCTAATT | ATTTGTAATG | AATTATTTAG | ACAGTTCTAA | 180 240 |
| 40 | TTTAATCTAT GGATAAATGG GCCCTGTCTT CTGGGAGTTA TTTTATAAGT AN SEQ ID NO:3959 SEQUENCE LENGTH:251 | AAACCTAATT TCANTNTTAA | ATTTGTAATG | AATTATTTAG | ACAGTTCTAA | 180 240 |
| | TTTAATCTAT GGATAAATGG GCCCTGTCTT CTGGGAGTTA TTTTATAAGT AN SEQ ID NO:3959 | AAACCTAATT TCANTNTTAA | ATTTGTAATG | AATTATTTAG | ACAGTTCTAA | 180 240 |
| 40 | TTTAATCTAT GGATAAATGG GCCCTGTCTT CTGGGAGTTA TTTTATAAGT AN SEQ ID NO:3959 SEQUENCE LENGTH:251 SEQUENCE TYPE:nucleic | AAACCTAATT TCANTNTTAA | ATTTGTAATG | AATTATTTAG | ACAGTTCTAA | 180 240 |
| | TTTAATCTAT GGATAAATGG GCCCTGTCTT CTGGGAGTTA TTTTATAAGT AN SEQ ID NO:3959 SEQUENCE LENGTH:251 SEQUENCE TYPE:Ducleic TOPOLOGY:linear | AAACCTAATT TCANTNTTAA | ATTTGTAATG | AATTATTTAG | ACAGTTCTAA | 180 240 |
| | TTTAATCTAT GGATAAATGG GCCCTGTCTT CTGGGAGTTA TTTTATAAGT AN SEQ ID NO:3959 SEQUENCE LENGTH:251 SEQUENCE TYPE:nucleic TOPOLOGY:linear CLONE:HUMGSO4684 | AAACCTAATT TCANTNTTAA acid | ATTTGTAATG | AATTATTTAG | ACAGTTCTAA CAAATGAAGT | 180 240 252 |
| | TTTAATCTAT GGATAAATGG GCCCTGTCTT CTGGGAGTTA TTTTATAAGT AN SEQ ID NO:3959 SEQUENCE LENGTH:251 SEQUENCE TYPE:nucleic TOPOLOGY:linear CLONE:HUMGSO4684 SEQUENCE DESCRIPTION: | AAACCTAATT TCANTNTTAA acid ATTNTTGAAC | ATTTGTAATG AGAGANCTTT | AATTATTTAG TGTGCAATTT | ACAGTTCTAA CAAATGAAGT | 180 240 252 |
| | TTTAATCTAT GGATAAATGG GCCCTGTCTT CTGGGAGTTA TTTTATAAGT AN SEQ ID NO:3959 SEQUENCE LENGTH:251 SEQUENCE TYPE:nucleic TOPOLOGY:linear CLONE:HUMGS04684 SEQUENCE DESCRIPTION: GATCCGGAGT CTTTGAGGCC | AAACCTAATT TCANTNTTAA acid ATTNTTGAAC GTGTTAAGTG | ATTTGTAATG AGAGANCTTT TACTAATTCA TTCTTATGAT | AATTATTTAG TGTGCAATTT ACTAATCCTG TTAAACCACT | ACCACCATA TAGCATTGT | 180 240 252 60 120 |

| | GTAAACCTAA A | | | | | 251 |
|------|---|--------------------------|--------------------------|--------------------------|--------------------------|------------|
| 5 | SEQ ID NO:3960 SEQUENCE LENGTH:251 SEQUENCE TYPE:nucleic TOPOLOGY:linear | acid | | · | | |
| 10 | CLONE:HUMGS04685 SEQUENCE DESCRIPTION: GATCTTCTAA CTTATAAATG AAATCTTTAA TGTATATTTN GGCATGGTCT AGTAATAATA GCCTTTATTG GGTTAGGTAT GTAAAGANTT N | ATGTATGCTG ATGTAATATG | AACACATTTT TACCTTGCTG | TATAATTTGN GTTANTATAA | CACACTTGGA CTAAGATTTT | 180 |
| 20 | SEQ ID NO:3961 SEQUENCE LENGTH:251 SEQUENCE TYPE:nucleic TOPOLOGY:linear CLONE:HUMGSO4686 SEQUENCE DESCRIPTION: | acid | | · | | 201 |
| 25 | GATCCAACTT CAAAGTAAAA TNTTNNCATG GTTACTTATA GGTATATTCT AAGTCAAGAT GAATTACTTA AGTNCATTAC GGCACTATTT N | TATAATGAAT GCTATGAAGT | ATAAATAGAC TGTTATAGTT | AAATAGGACT TAAGGGNCAT | TGGAAAATGT TCTTAAGAAG | 180 |
| 35 | SEQ ID NO:3962 SEQUENCE LENGTH:250 SEQUENCE TYPE:nucleic TOPOLOGY:linear CLONE:HUMGS04687 | acid | | | | |
| 40 | SEQUENCE DESCRIPTION: GATCCTGGAG ACGCCATTTC GTTGGACATG CGTGTGGGCT AAACAATTAT CCAAGTGGTT ACTTGACTTT TCAACCTCTT ANCAGTTAAA | TCAGTGTGAG GAATCCTGTG | GCTTTTAATA AGACTTGGCA | TGTATATCCT AGTGTGTGCA | GTTATCAATA AATNAAGTAT | 120 180 |
| 45 | SEQ ID NO:3963 SEQUENCE LENGTH:245 SEQUENCE TYPE:nucleic TOPOLOGY:linear CLONE:HUMGS04688 | acid | | | | |
| 50 · | SEQUENCE DESCRIPTION: GATCGACATG AGATACAGAC | GAGAGATTAT | GTCTCTTATG | GCTTTATCAT | CAATTAAACT | 60 |

| | TAGCAAAGTC TGTTAAATTT | | | | | |
|----|-----------------------|------------|------------|------------|------------|-----|
| | ATGTCATCCA TATCTGCACA | | | | | |
| | TNCTCCTNAT TCTAGACAAT | AATGCTATGT | GTTTTCCTTG | AATACCATGA | TTTTAAACTN | 240 |
| 5 | TTAAA | | | | | 245 |
| | SEQ ID NO:3964 | | | | | |
| | SEQUENCE LENGTH: 245 | | | | | |
| 10 | SEQUENCE TYPE:nucleic | acid | | | | |
| | TOPOLOGY:linear | | | | | |
| | CLONE: HUMGS04689 | | | | | |
| | SEQUENCE DESCRIPTION: | | | | | |
| 15 | GATCGGTCAT GCTGGGGCCA | | | | | 60 |
| 15 | AAGCGTGTGC ACCTGCAGCT | | | | | |
| | GGGGGAGCCA CAGGCCGCCA | | | | | |
| | AAAAAACAAA AACTGCAATT | TTTATTCAAA | TAAAAAAAGG | GTAAAAATAA | AAGTTAATAA | 240 |
| | GGAAA | | | | | 245 |
| 20 | | | | | | |
| | SEQ ID NO:3965 | | | | | |
| | SEQUENCE LENGTH: 244 | | | | | |
| | SEQUENCE TYPE:nucleic | acid | | | | |
| 25 | TOPOLOGY: linear | | | | | |
| | CLONE: HUMGS04690 | | • | | | |
| | SEQUENCE DESCRIPTION: | | ****** | | | |
| | GATCATGGAA AGTTTCAGTG | | | | | 60 |
| 20 | AGGAGGATGA ATGAAGGTTG | | | | | |
| 30 | TTTCTTAAGC ATCTCAGAGT | | | | | |
| | CACCTCACTC CATATCATAA | GACAIGICIG | CATTUTUGAA | TATTAAAUGI | GGACATGGCT | |
| | UAAA | | | | | 244 |
| 35 | SEQ ID NO:3966 | | | | | |
| 33 | SEQUENCE LENGTH: 244 | | | | | |
| | SEQUENCE TYPE:nucleic | acid | | | | |
| | TOPOLOGY: linear | | | | | |
| • | CLONE: HUNGS 04691 | • | | | | |
| 40 | SEQUENCE DESCRIPTION: | | | | | |
| | GATCATGCTT TTCCCTACTA | AACTTCTGTA | ACTGCATGTA | TGATACATTA | TTGCAGAGGT | 60 |
| | AAGAGATAGT TTAATGGATT | TTTAAAAACA | AATTACTATA | ATTNATCTGA | TGTTCTCTAG | 120 |
| • | TTGCATTTTG CTGAAATGTA | GTGCTGTTCT | AAATTCTGTA | AATTGATTGC | TGTTGAATTA | 180 |
| 45 | TCTTTCTGTT GAGAAGAGTC | TATTCATGCA | TCCTGACCTT | AATAAATACT | ATGTTCAGTT | 240 |
| | TAAA | | | | | 244 |
| | SEQ ID NO:3967 | | | | | |
| | SEQUENCE LENGTH: 242 | | | | | |
| 50 | SEQUENCE TYPE:nucleic | acid | | | | |
| | TOPOLOGY: linear | | | | | |

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| | CLONE: HUMGS04692 SEQUENCE DESCRIPTION: | ٠ | | | | |
|----|--|--------------|----------------|---------------------|------------|-----|
| | GATCCAAGCC CTTGTTCAGA | | | | | |
| 5 | TTTATTATTA TTATTTTGTT | | | | | |
| | AGGAACAAGA CTAAAATTGT | | | | | |
| | GATTTTAAAG GGCATTGATA | GCATACCAAA | CAAAAGGCAA | AATAAAGTGA | CCTTTTTATA | |
| | AA | | | | | 242 |
| 10 | CDO ID NO. 2000 | | | | | |
| | SEQ ID NO:3968 SEQUENCE LENGTH:241 | | | | | |
| | SEQUENCE TYPE:nucleic | acid | | | | |
| | TOPOLOGY: linear | aciu | | | | |
| 15 | CLONE: HUMGS04693 | | | | | |
| | SEQUENCE DESCRIPTION: | | | | | |
| | GATCTTCCTC CCATGAAAGA | AAAANCAAGA | ACCAGAGGCG | TAGACTNACT | NAAGACACAA | 60 |
| | CTCCTGGCTT TCTNAAGCTA | | | | | |
| | GACAAATTTC AGTACCTCTG | | | | | |
| 20 | AGGTTTTTAA ACACATTGAA | | | | | |
| | A | and anomiton | 01100111111111 | | | 241 |
| | n | | | | | |
| | SEQ ID NO:3969 | | | | | |
| 25 | SEQUENCE LENGTH: 240 | | | | | |
| | SEQUENCE TYPE:nucleic | acid | | | | |
| | TOPOLOGY: linear | | | | | |
| | CLONE: HUMGS04694 | | | | | |
| 30 | SEQUENCE DESCRIPTION: | | | | | |
| | GATCAAGGGT AAGAATAAGT | ATCCACCTCT | TTCCTTTTAA | AAATTTTCCC | TCAGAGTCCC | 60 |
| | TATGTTGCAT ATTTNATTCT | GTTCAGAATC | TAACCTTTCC | CTAAGGCTTA | TCTTTCTAAC | 120 |
| | AGATACTAAT TATGAATGGG | | | | | |
| 35 | GGGTGTTTTC ACAAAAGAAA | TTCTCCCATG | TTATGATGTG | TGTGGTTGCT | AAAAAGTAAA | 240 |
| | | | | | | |
| | SEQ ID NO:3970 | | | | | |
| | SEQUENCE LENGTH: 238 | | | | | |
| | SEQUENCE TYPE:nucleic | acid | | | | |
| 40 | TOPOLOGY: linear | | | | | |
| | CLONE: HUNGS04695 | | | | | |
| | SEQUENCE DESCRIPTION: | | | 0 t T t 0 0 T 0 T 0 | 1110mmccc1 | cr |
| | GATCCAGACT GGCCAGATTT | | | | | |
| 45 | CAAGTAACTT AGTCACTATG | | | | | |
| | CAAGACTACA AGATGTGGTC | | | | | |
| | CCAAATGNAA ATTCTTCATT | TGTATCTNCC | AAAAATAAAA | AAATAGUTAT | LLUUUAAA | 238 |
| | SEQ ID NO:3971 | | | | | |
| 50 | SEQUENCE LENGTH: 238 | | | | | |
| | SEQUENCE TYPE: nucleic | acid | | | | |
| | | | | | | |

| | TOPOLOGY: lin | near | | | | | |
|----|---------------|------------|------------|------------|------------|------------|-----|
| | CLONE: HUMGS | 04696 | | | | | |
| | SEQUENCE DES | SCRIPTION: | | | | | |
| 5 | GATCAACCAG A | AAAAAAAAA | TATNATGAAA | TGGATACACA | CAGTGGACAC | CTGTGAAGTT | 60 |
| | ATCTTAGCTC (| CCCCAAAACT | GAGANGTACA | AATTAGTCTC | CAAACCTAAT | TACCAGTTTA | 120 |
| | CAGGAAACAT N | NGGGAATAAA | AGANCAANTT | AACAACACAA | AGAAGCAAAC | ANCCAANTGC | 180 |
| | ACAGTTTGGG A | AAATTCTGCA | GAGGTAATGG | CCTAGTTTTT | TANCCAGTAC | ATGTCAAA | 238 |
| 10 | | | | | | | |
| | SEQ ID NO:39 | 972 | | | | | |
| | SEQUENCE LE | NGTH:237 | | | | | |
| | SEQUENCE TYPE | PE:nucleic | acid | | | | |
| | TOPOLOGY: lin | near | f | | | | |
| 15 | CLONE: HUMGS | 04697 | | | | | |
| | SEQUENCE DES | | | | | | |
| | GATCATAAAT (| | | | | | |
| | ATATTNGGTG 1 | | | | | | |
| 20 | TTCTAAGANT A | | | | | | 180 |
| | TCATAGAGAC | TGTCTATCGT | CACTTATGCT | CATNGTGACC | NTACCAAANA | NTAAAAN | 237 |
| | SEQ ID NO:3 | 973 | | | | | |
| | SEQUENCE LES | | | | | | |
| 25 | SEQUENCE TY | | acid | | | | |
| | TOPOLOGY: 1i | | 2014 | | | | |
| | CLONE: HUMGS | | | • | | | |
| | SEQUENCE DE | | | | | | |
| 30 | GATCGTAGAA | | ATGTGACATA | TCTACTGACT | GATGACAAGG | GAATTTCATT | 60 |
| 00 | AGGAAGAAGG ' | | | | | | |
| | CAGCTTCATN | | | | | | |
| | GATAAATGAA | | | | | | 236 |
| 35 | | | | | | | |
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| | SEQ ID NO:3974 SEQUENCE LENGTH:173 | | | | | |
|----|---------------------------------------|------------|------------|------------|------------|-----|
| | SEQUENCE TYPE:nucleio | acid | | | | |
| 5 | TOPOLOGY: linear | | | | | |
| | CLONE: HUMGS04699 | | | | | |
| | SEQUENCE DESCRIPTION: | | | | | |
| | GATCTTCCAG TTTAGGAGCA | | | | | |
| 10 | GTCTGCATGG CTGCACTCTC | | | | | |
| | ACAGTTGCAA GTTGAGTCT1 | ICCATUAGAC | AAIGIGCCAA | AUIIAAAAAA | AAN | 173 |
| | SEQ ID NO:3975 | | | | | |
| 15 | SEQUENCE LENGTH: 234 | | | | | |
| 15 | SEQUENCE TYPE:nucleio | acid | | | | |
| | TOPOLOGY:linear | | | | | |
| | CLONE: HUMGS04700 | | | | | |
| | SEQUENCE DESCRIPTION: | | | | | |
| 20 | GATCCCTAAA TAAGTAGTTA | | | | | |
| | GAGTAAATAT TTTTGGGTAT | | | | | |
| | GTTGCTTGTG TAGCTGTAAT | | | | | |
| | TATTGTAGGA CTGTACCATA | ATACAGGCAG | CATGCTGCTG | ATAAACACTG | GAAA | 234 |
| 25 | SEQ ID NO:3976 | | | | | |
| | SEQUENCE LENGTH: 234 | | | | | |
| | SEQUENCE TYPE:nucleic | acid | | | | |
| | TOPOLOGY: linear | 3014 | | | | |
| 30 | CLONE: HUMGS04701 | | | | | |
| | SEQUENCE DESCRIPTION: | | | | | |
| | GATCCTCCTG CCTCGGTCTC | CCAAAGTNCT | GGGATTGCAG | GTCTTGGTCT | TGATNCCAAG | 60 |
| | TTTGGGAAAG NAGCTAAGAA | GACATCCCAC | TAGGAAGAGA | GAGACTACCT | CCACATCAAA | 120 |
| 35 | AATATTTAAG TNATTATCTC | AAACAGTGAC | ATCTCTTGGG | AAAATGGACT | TAATAGGAAT | 180 |
| | ATGGGACTGA GTTCCAGTCT | TTTTNAATAA | AATAAAATCA | AGCAANATCA | TAAA | 234 |
| | SEQ ID NO:3977 | | | | | |
| | SEQUENCE LENGTH: 234 | | | | | |
| 40 | SEQUENCE TYPE:nucleic | acid | | | | |
| | TOPOLOGY:linear | aciu | | | | |
| | CLONE: HUMGS04702 | | | | | |
| | SEQUENCE DESCRIPTION: | | | | | |
| 45 | GATCAACCCC GTGAAGGTGG | CCAACCTGGT | GAAGGCGTAC | GTGGACAAGT | ACAGGCACAT | 60 |
| | ANCNCAGGCA CANGAAACCA | | | | | |
| | GAGGCCAGGC AATCACGGGC | | | | | |
| | TGCCCGGGGA GCTGTCGGGA | GTNGCGGGAA | TNGGGGCCAT | GCCCGGNGGA | GCTN | 234 |
| 50 | | | | | | |
| | SEQ ID NO:3978 | | | | | |

| | SEQUENCE LENGTH | :231 | | | | | |
|---------|-------------------|---------------|------------|------------|------------|------------|-----|
| | SEQUENCE TYPE:n | ucleic | acid | | | • | |
| | TOPOLOGY:linear | | | | | | |
| 5 | CLONE: HUMGS0470 | 3 | | | | | |
| | SEQUENCE DESCRII | PTION: | | | | | |
| | GATCATCGCA TTGA | AATGGT | TTTGGGAAGT | ATGGAAAATT | AAATGGATTT | TTGAGACACT | 60 |
| | AGTTTATTGG CTATO | | | | | | 120 |
| 10 | ATGTAAATGC ATATA | TAAAT | TCTGACTGTA | TTTCAGTCAG | TGTTTTCTTG | GAAAAATTCC | 180 |
| 10 | CAGATTGGAA GCAGA | AAAGTA | CAGACCAAAT | AAAGATTATT | CACCCACCAA | A | 231 |
| | | | | | | | |
| | SEQ ID NO:3979 | | | | | | |
| | SEQUENCE LENGTH: | :231 | | | | | |
| 15 | SEQUENCE TYPE: no | ucleic | acid | | | | |
| | TOPOLOGY: linear | | | | | | |
| | CLONE: HUMGS04704 | 4 | | | | | |
| | SEQUENCE DESCRIE | PTION: | | | | | |
| 20 | GATCGCTCTC ACTGC | GCCTGC | TGCAGATNAG | CCAGGGGGAG | CCTAGGCCCA | GCTCCTCCGC | 60 |
| 20 | GGTTGGCCCC CCAGA | ACCATA | CCTCTGACCC | ACCCAGCCCC | CNNTGGTAGC | CCCAGCAGTT | 120 |
| | CTCAGGGTGC TGACC | | | | | | |
| | AGGGCAGAGT GGGCT | | | | | | 231 |
| | | | | | | | |
| 25 | SEQ ID NO:3980 | | | | | | |
| | SEQUENCE LENGTH: | : 242 | | | | | |
| | SEQUENCE TYPE: nu | ıcleic | acid | | | | |
| | TOPOLOGY: linear | | | | | | |
| 30 | CLONE: HUMGS04705 | 5 | | • | | | |
| | SEQUENCE DESCRIP | PTION: | | | | | |
| | GATCAAGTCT TGTCA | AGTTCG | TGCCCTCTTT | CCCCATGTTC | CCTGGGAAGA | CGGGTGGTGG | 60 |
| | CAGAGTGAGA AGGCC | CACTGG | TTCTGTGCCG | CAGCACGCAA | AATTTAGAAT | TCTACAGACT | 120 |
| <u></u> | AGCTCTATAC GTAGT | TGAGGA | CCCAGATTTA | GAGAAACTGA | CCAATATTTA | TCTCCGCATT | 180 |
| 35 | TGTGTGTGTG TCCAA | ACTCTG | TAGGNCAATA | AACCANCAAG | ACAAATGAAC | TGTGCTTCCA | 240 |
| | AA | | | | | | 242 |
| | | | | | | | |
| | SEQ ID NO:3981 | | | | | | |
| 40 | SEQUENCE LENGTH: | 230 | | | | | |
| | SEQUENCE TYPE:nu | acleic | acid | | | | |
| | TOPOLOGY:linear | | | | • | | |
| | CLONE: HUMGS04706 | 5 | | | | | |
| 45 | SEQUENCE DESCRIF | PTION: | | | | | |
| | GATCCACCTC TACAC | | CAGGAAGCCC | CATCTGTGCC | TGCCCTCAGG | TGGTCCACCA | 60 |
| | GTCTCCCCCT TTGGT | | | | | | |
| | ATGCTAACAT CCCTC | | | | | | |
| | CTCCATTAGT TCTGC | | | | | | 230 |
| 50 | | | | | | | |

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SEQ ID NO:3982

| | SEQUENCE LENGTH:229 SEQUENCE TYPE:nucleic TOPOLOGY:linear | acid | | | | |
|----|---|----------------|---------------|----------------|-------------|-----|
| 5 | CLONE: HUMGS04707 | | | | | |
| | SEQUENCE DESCRIPTION: | | | | | |
| | GATCTATTCC CACATGANGT | | | | | |
| | TGTCACCGAC ATCATCATCA | | | | | |
| 10 | CTGTNCTGCA GTCGGGGACA | | | | AATTTGCACT | |
| | CCCCTCAGCT AGACGCACAG | ACTCAGCAAT | AAACCTTTGC | ATCAGGAAA | | 229 |
| | SEQ ID NO:3983 | | | | | |
| | SEQUENCE LENGTH: 226 | | | | | |
| 15 | SEQUENCE TYPE:nucleic | acid | | | | |
| | TOPOLOGY: linear | | | | | |
| | CLONE: HUMGS04708 | | | | | |
| | SEQUENCE DESCRIPTION: | | | | | |
| 20 | GATCCTCCCT GCCCAAGTCT | TACTTCGTGA | GCTGGCCTTG | CTCCCCATCC | CCCAAGTGCC | 60 |
| | TCACCAGTCC CCCAGACTGG | GTGAAGGTAC | AGCTGGCTCC | TTTCGGGGGT | GCAGCTTCAA | 120 |
| | CTCTCTCGGC GGTAGGGCGG | TGCCATCCCC | ACCCATAGGG | CTGGCTCACA | TCCAGTCACT | 180 |
| | CCCAACAGCG TCCANCACAC | AAATAAAAGA | CCCTTTGGCC | CTGAAA | | 226 |
| 25 | | | | | | |
| | SEQ ID NO:3984 | | | | | |
| | SEQUENCE LENGTH: 226 | | | | | |
| | SEQUENCE TYPE:nucleic | acid | | | | |
| 30 | TOPOLOGY: linear | | | | | |
| 30 | CLONE: HUMGS04709 | | | | | |
| | SEQUENCE DESCRIPTION: | NCCACACCAN | TCTCCTC 1 1 C | ATCCCA A A A C | 00000000000 | |
| | GATCACTTGN GGTCAGNCGT CTAAAAATGC AAAAATCAGC | | | | | |
| | GCTGAGGCGA AAGAATTGCT | | | | | |
| 35 | GCCACTTCAC TCCAGCCCGG | | | | CONSUMITS | 226 |
| | | 00111101101110 | | 010.00 | | |
| | SEQ ID NO:3985 | | | | | |
| | SEQUENCE LENGTH: 225 | | | | | |
| 40 | SEQUENCE TYPE:nucleic | acid | | | | |
| | TOPOLOGY: linear | | | | | |
| | CLONE: HUMGS04710 | | | | | |
| | SEQUENCE DESCRIPTION: | | | | | |
| 45 | GATCCTGGGC CAAACTGATT | | | | | |
| | TATGTTGCAG GGTGGTGTTG | | | | | |
| | AAATGCTGGC ATTACAGGCC | | | | TTTNAATTGA | |
| | GGGTTAGGGA GTCATAATAC | CANCAAAGAT | GGTAAAAGGA | ATTTN | | 225 |
| 50 | SEQ ID NO:3986 | | | | | |
| | SER ID NO.3500 SECUENCE I ENCEN.221 | | | | | |

| 5 | SEQUENCE TYPE:nucleic TOPOLOGY:linear CLONE:HUMGSO4711 | acid | | | | |
|----|--|-----------------------|------------------------|------------|------------|-----|
| 3 | SEQUENCE DESCRIPTION: GATCATCCTC TAAACATTTT | ልፐሮልፐፒልፕፐ | AATCCTCCCT | GCCTGTGTCT | ATTATTATAT | សា |
| | TCATATCTCT ACGCTGCAAA | | | | | |
| | TGTCTGCTGT TGCAAAAAGA | | | | | |
| 10 | TTAATTTTAA TCTATACAAT | | | | | 221 |
| 10 | | | | | | |
| | SEQ ID NO:3987 | | | | | |
| | SEQUENCE LENGTH: 221 | | | | | |
| | SEQUENCE TYPE:nucleic | acid | | | | |
| 15 | TOPOLOGY: linear | | | | | |
| | CLONE: HUMGS04712 | | | | | |
| | SEQUENCE DESCRIPTION: | | | | | |
| | GATCATCATC TGTGAAGCAT | | · · · · | | | |
| 20 | CATCCAAAAC ACATTCAGGA | | | | | |
| | ACTTCCATGT AGTAACAGGG | | | | AAGCATTCAA | |
| | CCACTCTGCC CCCAGGGCGA | CACTGGNCAT | GTGGTTCAAT | N | | 221 |
| | SEQ ID NO:3988 | | | | | |
| 25 | SEQUENCE LENGTH: 220 | | | | | |
| | SEQUENCE TYPE:nucleic | acid | | | | |
| | TOPOLOGY: linear | | | | | |
| | CLONE: HUMGS04713 | | | • | | |
| 30 | SEQUENCE DESCRIPTION: | | | | | |
| | GATCTTTTTA AGATNNNAAT | AAAGAGCTTT | CCTAAATAAA | ATAAGCAATA | TTTAACTTTA | 60 |
| | GAAACTGTAC TCTATGAAAC | GTGTTTTATG | AAANCATCTN | TTACAAAAAG | TGCTTACTTA | 120 |
| | ACTCAGCAAG AAAGGTTTAA | TGTACACATT | TNACANCTAA | ANTCAAAACC | TACAAGAAAC | 180 |
| 35 | TGCACTGCCT TCACTATTTA | CAAATCGGCC | TACAAGGAAA | | | 220 |
| | | | | | | |
| | SEQ ID NO:3989 | | | | | |
| | SEQUENCE LENGTH:218 | • 1 | | | | |
| 40 | SEQUENCE TYPE:nucleic | acid | | | | |
| 70 | TOPOLOGY: linear | | | | | |
| | CLONE: HUMGSO4714 SEQUENCE DESCRIPTION: | | | | | |
| | GATCTGGCTA TCTCATTGAT | ም ል ም ል ጥጥጥጥጥር | ተ ሞር ር ር ተቸል ተል | CTCCAAACTA | CATCATAGGT | 60 |
| | ATAATTTTAT TTTGAGAAAG | | | | | |
| 45 | ACCAAGAGGA CATTTCAAAA | | | | | |
| | TCTTTTTAAG CCTTATTAAA | | | | | 218 |
| | | VIMIUIIIIA | | | | |
| | SEQ ID NO:3990 | | | | | |
| 50 | SEQUENCE LENGTH: 217 | | | | | |
| | SEQUENCE TYPE:nucleic | acid | • | | | |

| _ | TOPOLOGY:linear CLONE:HUMGSO4715 SEQUENCE DESCRIPTION: | | | | | |
|----|--|------------------|-------------|------------|----------------|-----|
| 5 | GATCTGTTAA ATTGGATTTT | | | | | |
| | TGGTTAGGAA ATTTTAAAAG | | | | | |
| | TGACTTAGAC CGTAAGCTTT | TTAAGTTTCT | CATTGTAATT | TACCTTCTCA | TGCAGATTGC | 180 |
| | TGATGTTTTA TTAAACCTTA | TTTTTACAAA | AATGAAA | | | 217 |
| 10 | | | | | | |
| | SEQ ID NO:3991 | | | | | |
| | SEQUENCE LENGTH: 281 SEQUENCE TYPE: nucleic | | | | | |
| | | acio | | | | |
| 15 | TOPOLOGY: linear | | | | | |
| | CLONE: HUMGS04716 | | | | | |
| | SEQUENCE DESCRIPTION: | TOT 1 1 TT 1 T 1 | | C.CTTC.T.C | 4 4 TTTN 4 TTT | 60 |
| | GATCTTATTA GACTCATACA | | | | | |
| | TCAGGCNTGA AGAAATATTC | | | | | |
| 20 | ACTNGCTCAT ATTANCTNGG | | | | | |
| | TTCCTCCAAA ANCTTATCCT GACTGCTGTA GGCAGCATCT | | | | CIIGAAAGGA | 281 |
| | UNCTUCIOTA GUCAGCATOT | UUUAAIUCAA | NIUDODDNINI | 14 | | 201 |
| | SEQ ID NO:3992 | | | | | |
| 25 | SEQUENCE LENGTH: 217 | | | | | |
| | SEQUENCE TYPE:nucleic | acid | | | | |
| | TOPOLOGY: linear | | | | | |
| | CLONE: HUMGS04717 | | | | | |
| 30 | SEQUENCE DESCRIPTION: | | | | | |
| | GATCAGCCTG GGCAACATAG | CCATAGTGAG | ACACCAACTC | TCTACAACAG | CAAAACAAAA | 60 |
| | CAAAACAAAA AAACATGCAG | CTGGGCATGG | TGGTNACACC | TGTGGTCCTA | GCTACTCAGG | 120 |
| | AGGCTGAGGT GGGAGGATTG | CTGGAGCTAG | GATGTCAAGN | TTAGTGANCG | TATTCGACCA | 180 |
| 05 | CTNACTCAGC TGGNAACAGA | NGAGACCTGT | CTAGAAA | | | 217 |
| 35 | | | | | | |
| | SEQ ID NO:3993 | | | | | |
| | SEQUENCE LENGTH: 216 | | | | | |
| | SEQUENCE TYPE: nucleic | acid | | | | |
| 40 | TOPOLOGY:linear | | | | | |
| | CLONE: HUMGS04718 | | | | | |
| | SEQUENCE DESCRIPTION: | | | _ | | |
| | GATCATTTTT TGAGGCAGGA | | | | | |
| 45 | GCCTTTTGTA AGGACTTGTA | | | | | |
| | ACTGCACATA TCTCTGGGTG | | | CTTTCATAGC | AATAGTTCCC | |
| | AGCTAGCATA CCTGCTTCTG | CCAGTCCAGG | GCCAAA | | | 216 |
| | SEQ ID NO:3994 | | | | | |
| 50 | SEQUENCE LENGTH: 220 | | | | | |
| | SEQUENCE TYPE:nucleic | acid | | | | |
| | | | | | | |

| | TOPOLOGY:linear CLONE:HUMGSO4719 | | | | | |
|----|---|------------|------------|-----------------|--------------|-----|
| - | SEQUENCE DESCRIPTION: | ******* | 1050105010 | CTC 1 CT 1 1 TC | C & CTCTCCCC | 60 |
| 5 | GATCCAGACT ATAATCCTGC | | | | | |
| | ATCTGCAGAG AGGCTTGACT CCTTTCTTTT NNNTAAGAAA | | | | | |
| | | | | TICTICIONI | AUCTITUATO | 220 |
| | ATTGAACTTA ATAAACTGAC | CITAAAATII | CAAATATAAA | | | 220 |
| 10 | SEQ ID NO:3995 | | | • | | |
| | SEQUENCE LENGTH: 215 | | | | | |
| | SEQUENCE TYPE:nucleic | acid | | | | |
| | TOPOLOGY: linear | acra | | | | |
| 15 | CLONE: HUNGS04720 | | | | | |
| | SEQUENCE DESCRIPTION: | | | | | |
| | GATCTAAGGA AGAACTTGCT | GCTGCAGTAT | TGAAACTGTG | AAGAACTGAC | ATTTGAAGAA | 60 |
| | AAATAGATTA CCGTTGCGGG | | | | | |
| 20 | TCTAGGACAC TTACTGTCCT | | | | | |
| 20 | TCTGAAATGA ATAAAAAGAG | | | | | 215 |
| | 1010.0011011 | | | | | |
| | SEQ ID NO:3996 | | | | | |
| | SEQUENCE LENGTH:214 | | | | | |
| 25 | SEQUENCE TYPE: nucleic | acid | | | | |
| | TOPOLOGY:linear | | | | | |
| | CLONE: HUMGS04721 | | | | | |
| | SEQUENCE DESCRIPTION: | | | | | |
| 30 | GATCCAGAGA CAGAGGCAGC | CTGTCTTTTC | AGTTGGTTTC | TGCTTTTAAT | TTACTTGTAC | 60 |
| | AATTCATTGT TACTGTTCTG | TTTTTCCTAT | TAATCTTTTG | TCAACTTCCT | GATTATGTAA | 120 |
| | CAAAGTATGT ACAGTCTACT | TTTGACCTAT | TTTTATCACA | GTATNATTNA | TTNCTTCTTT | 180 |
| | CAATAAAGTA CTNGNGCATA | TTTCCACTGC | CAAA | | | 214 |
| 35 | | | | | | |
| | SEQ ID NO:3997 | | | | | |
| | SEQUENCE LENGTH:214 | | | | | |
| | SEQUENCE TYPE:nucleic | acid | | | | |
| | TOPOLOGY: linear | | | | | |
| 40 | CLONE: HUMGS 04722 | | | | | |
| | SEQUENCE DESCRIPTION: | | | | | |
| | GATCCGNAGT TCAAGGGAAG | | | | | |
| | CATGGTGGAC ATTTGAGCAG | | | | | |
| 45 | TTTTTACTCA AAATAATGTT | | | CTGTTGGAAA | NGGGGATTAA | |
| | TTTAATCATG CAGATAAACC | ATTTAAATGT | CAAA | | | 214 |
| | SEQ ID NO:3998 | | | | | |
| | SEQUENCE LENGTH:212 | | | | | |
| 50 | SEQUENCE TYPE:nucleic | acid | | | | |
| | TOPOLOGY : linear | uc i u | | | | |

| | CLONE: HUMGS 04723 SEQUENCE DESCRIPTION: | | | | | |
|----|---|------------|------------|--------------|-------------------|-----|
| | GATCGAAACC AGCCTGGTCA | | | | | |
| 5 | GCCAGCAATA CAAAAATTGG | | | | | |
| | ATCGCTTGAN CCCAGGAGGT GCCTGGGCGA CAAAGCGAGA | | | GATTGCGCCA | CTGCACTCCA | |
| | GCCIGGCGA CAAAGCGAGA | CICIGICICA | AA | | | 212 |
| 10 | SEQ ID NO:3999 | | | | | |
| 70 | SEQUENCE LENGTH: 211 | | | | | |
| | SEQUENCE TYPE:nucleic | acid | | | | |
| | TOPOLOGY:linear | | | | | |
| | CLONE: HUMGS04724 | | | | | |
| 15 | SEQUENCE DESCRIPTION: | | | | | |
| | GATCTCAGNA ATTGGAAAAA | TTGTCCTGTC | TGTCACTTGT | TTTGTTGCCT | TAATAAGCAT | 60 |
| | CTGAATGTTT GGTTGTGGGG | | | | | |
| | ATTACTTGAG CCCTGGAGGT | CAAAGCTGAG | GTGAGCCATG | ATTACTCCAC | TGCACTCCAG | 180 |
| 20 | CCTGGGCAAC AGAGCCAGGC | CCTGTATCAA | A | | | 211 |
| | SEQ ID NO:4000 | | | | | |
| | SEQUENCE LENGTH: 210 | | | | | |
| | SEQUENCE TYPE:nucleic | acid | | | | |
| 25 | TOPOLOGY: linear | aciu | | | | |
| | CLONE: HUMGSO4725 | | | | | |
| | SEQUENCE DESCRIPTION: | | | | | |
| | GATCAAGGCT ATGAACATCT | TGTGAAGTAG | CATCTTAACT | CTGCAAATAT | CAGAGTGAAT | 60 |
| 30 | CCAAACTTAT CAATTCAACA | | | | | |
| | CTCTACACTT TAGGAGGTTG | | | | | |
| | TTAGGAAACA TGGAAAAACC | | | 010110110110 | JOHOHO I DIGITALI | 210 |
| | | | | | | |
| 35 | SEQ ID NO:4001 | | | | | |
| | SEQUENCE LENGTH: 209 | | | | | |
| | SEQUENCE TYPE: nucleic | acid | | | | |
| | TOPOLOGY:linear | | | | | |
| | CLONE: HUMGS 04728 | | | | | |
| 40 | SEQUENCE DESCRIPTION: | | | | | |
| | GATCAGCATT CATACCATAG | | | | | |
| | AAATGGCAAT AACATGCTAA | | | | | |
| | ATTTTTTTC CTTCTCTATC | | CACCACCAGC | TTTATGGAGG | TATAATTAGC | |
| 45 | AAATAAAAAG TATACATATT | TAAGGTAAA | | | | 209 |
| | SEQ ID NO:4002 | | | | | |
| | SEQUENCE LENGTH: 209 | | | | | |
| | SEQUENCE TYPE:nucleic | acid | | | | |
| 50 | TOPOLOGY:linear | | | | | |
| | CLONE · HIMCSOA720 | | | | | |

| | SEQUENCE DESCRIPTION: | | | | | |
|----|-----------------------|------------|------------|--------------------|------------|-----|
| | GATCCTATGA ATTAATTCAG | AAAGCAACTA | AAATAACAAT | GGCCTGCCAA | ATGTCATTTT | 60 |
| | GTAAATATAC GTCTATGACT | TTAGGAGCTG | TCCTGGTTTG | AAAACATGAG | GACAGTTTAT | 120 |
| 5 | CCATTGGATG CCATCTATNT | AGTCCCAATT | AAGAAAGTTG | TTTTTTTGTG | AGAATGACCA | 180 |
| | AGGTAAATTT AAATATACCA | TTCAAACAN | | | | 209 |
| | | | | | | |
| | SEQ ID NO:4003 | | | | | |
| 10 | SEQUENCE LENGTH: 208 | | | | | |
| 70 | SEQUENCE TYPE:nucleic | acid | | | | |
| | TOPOLOGY: linear | | | | | |
| | CLONE: HUMGS04730 | | | | | |
| | SEQUENCE DESCRIPTION: | | | | | |
| 15 | GATCGATGAA GCACTTTTTT | ATTAATATT | TCCTTTGTTA | ${\tt AAGGAGGAAC}$ | CGTAACTCTC | 60 |
| | CATAGCTGTA CATATAACCC | TTTTCTCCTA | AAGAGGAGTC | AGTCAGTGCT | CCTATATTTT | 120 |
| | TCATTTTTG TCAAAGCAAG | AAGTAAATAC | TTTAGAATTG | TTAAATATAT | AAATAAAGCA | 180 |
| | AATAAAGTTG AGTGTTCCAC | ATGGTAAA | | | | 208 |
| 20 | | | | | | |
| | SEQ ID NO:4004 | | | | | |
| | SEQUENCE LENGTH: 207 | | | | | |
| | SEQUENCE TYPE:nucleic | acid | | | | |
| 05 | TOPOLOGY: linear | | | | | |
| 25 | CLONE: HUMGS04732 | | | | | |
| | SEQUENCE DESCRIPTION: | | | | | |
| • | GATCTTTCCA CATACACTAC | | | | | |
| | TTGATTTAAG CCTTATGTAG | TGACTGTTGC | TATATTTAAA | GTAGCATTTT | NAGTTTGCTG | 120 |
| 30 | TTTTTCCTCA CTGCTTAATC | CTACAAAAAC | CAGCCATCTG | CCTAAAAAAT | AAAAGAGCAA | 180 |
| | AANTGNATCA GTGCAACCGG | TATACGN | | | | 207 |
| | | | | | | |
| | SEQ ID NO:4005 | | | | | |
| 35 | SEQUENCE LENGTH: 207 | | | | | |
| | SEQUENCE TYPE:nucleic | acid | | | | |
| | TOPOLOGY: linear | | | | | |
| | CLONE: HUMGS04733 | | | | | |
| | SEQUENCE DESCRIPTION: | | | | | |
| 40 | GATCCACATC TCAAAGAAGT | | | | | 60 |
| | TGGTGGCTGA AAAGGGGCTC | | | | | |
| | CTATGGCAAG TNNNGGGCCT | | GGCTTCAATG | TGCTGCCCCC | TCTTAATACT | |
| | CACCAATAAA TTCTACTTCT | GTCCAAA | | | | 207 |
| 45 | | | | | | |
| | SEQ ID NO:4006 | | | | | |
| | SEQUENCE LENGTH: 205 | | | | | |
| | SEQUENCE TYPE:nucleic | acid | | | | |
| 50 | TOPOLOGY: linear | | | | | |
| | CLONE: HUMGS04734 | | | | | |
| | SPOURNCE DESCRIPTION. | | | | | |

| | • | | | | | |
|----|--|------------|------------|----------------|------------|-----|
| | GATCTACATT ATTCAGCAGC | | | | | |
| | GCCAGCTGCC TCGAATATCT | | | | | |
| _ | CTGCACTTGC TTGGTAAATT | | TGTATCTTCC | CCTTTGACTT | TAGGTAATAA | |
| 5 | AGCATCCAAA CTTGTAAATC | TGAAA | | | | 205 |
| | | | | | | |
| | SEQ ID NO:4007 | | | | | |
| | SEQUENCE LENGTH: 204 | | | | | |
| 10 | SEQUENCE TYPE:nucleic | acid | | | | |
| | TOPOLOGY: linear | | | | | |
| | CLONE: HUMGS04735 | | | | | |
| | SEQUENCE DESCRIPTION: | ma | 1005010110 | | **** | en |
| 15 | GATCTGGGAT AAAACCAGAC ATTAAACCAC ACATGTATTT | | | | | |
| | ATTAAACCAC ACATGTATTT ATAATTTATC ATACTTGTAC | | | | | |
| | | | AUAATIUATA | AIAACIUAAI | UIUAAACAIC | 204 |
| | AATAAAGACC ACTTAATGCA | CAAA | | | | 204 |
| 20 | SEQ ID NO:4008 | | | | | |
| 20 | SEQUENCE LENGTH: 203 | | | , | | |
| | SEQUENCE TYPE: nucleic | acid | | | | |
| | TOPOLOGY: linear | derd | | | | |
| | CLONE: HUMGS04736 | | | | | |
| 25 | SEQUENCE DESCRIPTION: | | | | | |
| | GATCINCTIT TTATCACTAT | AGTTTGTATT | CCTAGAATTG | TATATAAATG | GAATCCAACG | 60 |
| | GGCACAGTGA CACATGCCTG | | | | | |
| | TCAGCCCAGT TCAAGGCTGC | | | | | |
| 30 | TATAACAAGA CCCTATATCT | AAA | | | | 203 |
| | | | | | | |
| | SEQ ID NO:4009 | | | | | |
| | SEQUENCE LENGTH: 202 | | | | | |
| 35 | SEQUENCE TYPE: nucleic | acid | | | | |
| | TOPOLOGY: linear | | | | | |
| | CLONE: HUMGS04737 | | | | | |
| | SEQUENCE DESCRIPTION: | | | CD. C. D. C. I | #G | 00 |
| 40 | GATCTGAAAA GAATTTNTAT | | | | | |
| 40 | AATTTCAGCT TTNATTCTAA | | | | | |
| | CTATCTGTGT TTCTNTCTTA | | ACCULTARAG | IAACIIGAGI | UGIAAAUUAA | 202 |
| | ATAAAATACA CCAGTTTTCA | ΛΛ | | • | | 202 |
| | SEQ ID NO:4010 | | | | | |
| 45 | SEQUENCE LENGTH: 201 | | | | | |
| | SEQUENCE TYPE:nucleic | acid | | | | |
| | TOPOLOGY: linear | | | | | |
| | CLONE: HUMGS04738 | | | | | |
| 50 | SEQUENCE DESCRIPTION: | | | | | |
| | GATCCTCTTC CTGCTCCAGT | TGCTGGCCGA | CCACGTCCCT | GGCGTTGGCC | TGGTCACAAG | 60 |
| | | | | | | |

| | GCCGCTCATG GATTACTTGC GACCTCCCGG AAGGAGGGTG ACTGACTCCG GCAGCGTCAA | TGGGGAGGGG | | | | |
|-------------|--|--------------------------|------------|------------|--------------------------|-----|
| 5 | | •• | | | | 201 |
| 10 | SEQ ID NO:4011 SEQUENCE LENGTH:201 SEQUENCE TYPE:nucleic TOPOLOGY:linear CLONE:HUMGS04739 | acid | | | | |
| | SEQUENCE DESCRIPTION: GATCCTATTT GTACAAAAAA | | | | | 60 |
| 15 | AGCTTTTAGA ACTGTTTATC CCTAAAATGC CCAGTTACCT ACAAACTTCC CATCTCTTAA | GAAATTGTAT | | | | |
| 20 | SEQ ID NO:4012 SEQUENCE LENGTH:201 SEQUENCE TYPE:nucleic TOPOLOGY:linear | acid | | | | |
| 25 | CLONE:HUMGS04740 SEQUENCE DESCRIPTION: GATCTCATTT TATTTAGCAT AAAGAAAAAG CTTTGTTTTT AATATAAAAT TAATCATTTC NCAATGCTAT TACTACTTCT | ATAACTGGTA TCACCAAAGA | AAAACAAGAA | AAGATTCTCA | TCAAAATGAA CTGTTAAAAG | |
| 30 | | •• | • | | | 201 |
| 35 | SEQ ID NO:4013 SEQUENCE LENGTH:200 SEQUENCE TYPE:nucleic TOPOLOGY:linear CLONE:HUMGS04741 | acid | | 9 | | |
| 40 | SEQUENCE DESCRIPTION: GATCCAAGTT GCCCTTGGGG TGCAGTGTGA AGTGGGACAC TTNGGGGACC AGTTCACCCT ATAAAGTTGC TTTGCTTAAA | ACAGGTGAGA | CTCCATCTGC | CCTGGGCAGG | TTCCTGAGCC | |
| 45 . | SEQ ID NO:4014 SEQUENCE LENGTH:200 SEQUENCE TYPE:nucleic TOPOLOGY:linear CLONE:HUMGS04742 | acid | | | | |
| 50 | SEQUENCE DESCRIPTION: GATCTGACCT TTTCTTCAGA CAAAAGGTAA AGGNAATAAA | | | | | |

| | ATTATATCTT ACCAATT AAACTATATT ATGTAAT | | CCTTTGTTAT | TATAAATGTA | ATGATTCATT | 180 200 |
|----|---|----------------------------------|----------------|-----------------|------------|------------|
| 5 | SEQ ID NO:4015 SEQUENCE LENGTH:20 SEQUENCE TYPE:nucl TOPOLOGY:linear | - | | | | |
| 10 | CLONE:HUMGS04743 SEQUENCE DESCRIPTI GATCCTATGA CTGACAT | | AAAGAAGAGG | AAGACTCAGT | TGGGAAATTT | 60 |
| | TNCCATGAGG AAAATGT CTATGATTAA AAAAGCT | GCT TTGGTGCAAG | GTACAAGGCC | CACACCCTCT | CTGAGAGATA | 120 |
| 15 | AAACNGATTA ACTTGTC | | 111111011011 | | | 200 |
| | SEQ ID NO:4016 SEQUENCE LENGTH:20 | | | | | |
| 20 | SEQUENCE TYPE:nucl TOPOLOGY:linear CLONE:HUMGS04744 SEQUENCE DESCRIPTI | | | | | |
| 25 | GATCTTTCAA GAATGAA TAAAACTTTC TATAATG | CCA AGGNTTTTTA | | | | |
| | TGAAATACCA AACTTAT NTAAAATGAA ATTNCAT | GGA TTATCACTAG | | | | |
| 30 | SEQ ID NO:4017 SEQUENCE LENGTH:19 SEQUENCE TYPE:nucl | | | | | |
| 35 | TOPOLOGY:linear CLONE:HUMGSO4745 SEQUENCE DESCRIPTI GATCTGAGAG GCAGTAA | | AC A GTGC A GC | A CA A C A TTGA | AGTCCTCATT | 60 |
| 40 | GCAGCAGTGA CTCTGCA TAACGGCCTA TAGGATT | ACC TTGGATAAAT NTN AAGACTGANT | TATTTCANTC | TTTATTTTGT | AAAACGGAGA | 120 180 |
| 40 | AAATGAGNNN CANTAAA | TN | | | | 199 |
| 45 | SEQ ID NO:4018 SEQUENCE LENGTH:19 SEQUENCE TYPE:nucl TOPOLOGY:linear | | | | | |
| 50 | CLONE:HUMGS04746 SEQUENCE DESCRIPTI GATCATGTGA TTTCTAT CCATGGACAT TTGTCCT | TTC TNCCCCACAC | CCCACCCTGC | CCCACACCTG | CCCCTAATCA | 120 |
| | CTCCACTCTC CACCCCA | GTG TTGAACAGAT | TOTACCOTTC | TGTCTCATTA | CCACCAAATA | 180 |

| | AATAGACTTT CATTGGAAA | | | | | 199 |
|----|--|------------|------------|------------|------------|------------|
| 5 | SEQ ID NO:4019 SEQUENCE LENGTH:198 SEQUENCE TYPE:nucleic TOPOLOGY:linear CLONE:HUMGSO4747 | acid | | | | |
| 10 | SEQUENCE DESCRIPTION: GATCACGCGG CATGTATTGA GTTCAAGAAA ACATGAACAG ACATCACAAT AAATTATGGA AAAGTGTTTT CTTTTAAA | AAGCAAATNA | TGAAAATGAG | CATTTTACTT | GATGTTGATA | |
| 15 | | | | | | |
| 20 | SEQ ID NO:4020 SEQUENCE LENGTH:196 SEQUENCE TYPE:nucleic TOPOLOGY:linear CLONE:HUMGS04748 SEQUENCE DESCRIPTION: | acid | | | · | |
| 25 | GATCCCTACC GCCAGCTGCG TTCCGCTACC ATGGGCTGTC TGTCTCNCTG GCCTTGCCCT AATGCTTCTT CAGAAA | CTCTCTTTGC | AATCTGGGCT | GCGTCCTGAG | CAATGGGCTC | |
| 30 | SEQ ID NO:4021 SEQUENCE LENGTH:196 SEQUENCE TYPE:nucleic TOPOLOGY:linear | acid | | | | |
| 35 | CLONE:HUMGS04750 SEQUENCE DESCRIPTION: GATCATGAAG AAGCAGGGCC GCATTTTCT TTTAAAAGAC TTTAAAATGG TTTCATTGGA ACTCAAATCT GTGAAA | AAGTGTAATA | GACATCTAAA | ATTCCACTCC | TCATAGAGCT | |
| 40 | | | | | | |
| 45 | SEQ ID NO:4022 SEQUENCE LENGTH:195 SEQUENCE TYPE:nucleic TOPOLOGY:linear CLONE:HUMGS04751 SEQUENCE DESCRIPTION: | acid | | | · | |
| | GATCTGGTTC CAGGGGAAAA | | | | | |
| | GTTGTGTATA AAAGAAGAAA | | | | | |
| 50 | TAGAGAAAAA TTAAAATGCA | ATGAGTTAGC | AGTATACCCT | GGCACACTTA | ATAAATTAAA | 180 195 |

. 55

| 5 | SEQ ID NO:4023 SEQUENCE LENGTH:194 SEQUENCE TYPE:nucleic TOPOLOGY:linear CLONE:HUMGS04752 SEQUENCE DESCRIPTION: | , | | | | |
|------|--|--------------------------|--------------------------|--------------------------|--------------------------|------------|
| 10 | GATCTAGAAG CTGGTAAAAA ACTTAATCCA TTTAGCACTA GAAAATTTTT TATACTGAGG ATCAACTCAT CAAA | TTTAAAATAA | GCACACCAAG | TTATATGACT | AATATAACTT | |
| 15 | SEQ ID NO:4024 SEQUENCE LENGTH:193 SEQUENCE TYPE:nucleic TOPOLOGY:linear CLONE:HUMGS04753 | acid . | ŕ | | | |
| 20 | SEQUENCE DESCRIPTION: GATCCAACAG CAACACCATT TTTACTCAAA GCCCTTCTTA AACACATGAT GATGCCTCTG | AGGGAAAACA | CTACAAAAAG | TCACAAGGAT | ACCAAATGGA | 180 |
| 25 | CTGAGATGGC AAA | | | | | 193 |
| 30 | SEQ ID NO:4025 SEQUENCE LENGTH:191 SEQUENCE TYPE:nucleic TOPOLOGY:linear CLONE:HUMGS04754 SEQUENCE DESCRIPTION: | acid | | | | |
| 35 | GATCCACGGT GGGCTCCAGC CCATCCCTCC CCATGAGGGG TGCAGCCCAT GGTAGGAGCT CTGTTCTCAA A | CCAAGACACT | GCCTAAGGTG | TGGGAGGGAC | TGGCTGAGAT | |
| 40 | SEQ ID NO:4026 SEQUENCE LENGTH:264 SEQUENCE TYPE:nucleic TOPOLOGY:linear CLONE:HUMGSO4755 | acid | | | | |
| 45 . | SEQUENCE DESCRIPTION: GATCCAGGAA GTTGGTGAAC CAACTGTCCA ACAAAGTCCA AAAAGCAGTG GACTGTCTNT | CCAATATNAT TGGATTCAAA | GGGTCACCGG GTGGGCAAAG | GTTGATTATT GCCAAGAAAG | TNATTGCTTC GNGAGGAAGC | 180 |
| 50 | TTTATTTACA NCCAGGGAGT TTNTTTCACC GAGCCCTAAA | | CTACTGCAAC | CAGGCTTTTA | AAGTAGCAGT | 240 264 |

| 5 | SEQ ID NO:4027 SEQUENCE LENGTH:186 SEQUENCE TYPE:nucleic TOPOLOGY:linear CLONE:HUMGSO4756 SEQUENCE DESCRIPTION: GATCTTCACA TATTTATAT AACTCAAGTT ATATATATAT ATGTGAAAAA GATATAAAAA GNANTN | GNATATATAT GTCAAGAAAT | GTATGATTAT | TTTGGAGAGA | ATGGGCCCAA | 120 |
|----|---|--------------------------|------------|------------|------------|------------|
| 15 | SEQ ID NO:4028 SEQUENCE LENGTH:150 SEQUENCE TYPE:nucleic TOPOLOGY:linear CLONE:HUMGS04757 | acid | | | | |
| 20 | SEQUENCE DESCRIPTION: GATCTGGAAG TCACCCTCCT ATGAAGATGT ATGGGTACTC TGGAAAATAA AATTGAATTA | TGGCAGACTG | | | | |
| 25 | SEQ ID NO:4029 SEQUENCE LENGTH:186 SEQUENCE TYPE:nucleic TOPOLOGY:linear | acid | | | | |
| 30 | CLONE:HUMGSO4758 SEQUENCE DESCRIPTION: GATCAACAAG TTCAAAACAC TTAANTTTAG CTTGCACAGA | GCTTGATGCC | TATCCTNCAT | TCTTTNCAGA | AGTAAAGATA | |
| 35 | ATTATGGCAC TTATGCCAAA GATTTN SEQ ID NO:4030 | NTTCATTATT | TAATAANGTT | TTACTTGAGG | TAACATTACT | 180 186 |
| 40 | SEQUENCE LENGTH:183 SEQUENCE TYPE:nucleic TOPOLOGY:linear CLONE:HUMGSO4759 SEQUENCE DESCRIPTION: | acid | | | | |
| 45 | GATCCAACAC AGAGACAATA CCCAAGAATA TGGGATTGTA GCTTGCCTAT ACCTTGTNGC AAA | AAAAACCTGT | CATCTTACTG | CTATGATAGA | TGAAGATTTT | |

55

SEQ ID NO:4031

| 5 | SEQUENCE LENGTH:183 SEQUENCE TYPÉ:nucleic acid TOPOLOGY:linear CLONE:HUMGSO4760 | |
|------|---|-----|
| . 10 | SEQUENCE DESCRIPTION: GATCTAGCAT TTTAATTTCT AGCATTGCTA TTCACCGGCT TCCTTATTTT ATATGTAAAA ATTAAGATTT TATATTTAAT CTTCTTGTTT CTCATAGATA TTTTGTGAGC ATTTTNTTGT TTATTTTGAA GAAATGTGGA TAAGATACTT GGTAGTATAA AACAGNCTCT CTGAGAGTAT TTN | 120 |
| 15 | SEQ ID NO:4032 SEQUENCE LENGTH:182 SEQUENCE TYPE:nucleic acid TOPOLOGY:linear CLONE:HUMGS04761 | |
| 20 | SEQUENCE DESCRIPTION: GATCAAGGTC TGTATATTAT CCCAAACTTT ATTAAGAATT GTTTTCTAAT TNGTTATAAC ATTTTTNAAT TAATAGTTTC AAAACAAATT GTTAATACAA CTGTATAAAA TGAACATAAT TTTCCTCACT TGTATTTTTG TTATTGAGCA AGTTTATCAA AATAAATNGT CTACTAAAGA AA | |
| 25 | SEQ ID NO:4033 SEQUENCE LENGTH:181 SEQUENCE TYPE:nucleic acid TOPOLOGY:linear | |
| 30 | CLONE:HUMGSO4762 SEQUENCE DESCRIPTION: GATCTCTTAT CAATTAGCAC TCACTAATGT ACTACTAATT GAGCAACCTA CGCACTCAGT | |
| 35 | TGACTACGTA AATCTGTCAG GTCTTTTGTG ATTCCTCTG ATGCAGGAGA GGAAAAATTG TAATTGATGA AAATAATGAA TGAAAATCAA CAGATGAATA AATGGTTCTT TATAAGTGAA A | |
| 40 | SEQ ID NO:4034 SEQUENCE LENGTH:180 SEQUENCE TYPE:nucleic acid TOPOLOGY:linear CLONE:HUMGS04763 | |
| 45 | SEQUENCE DESCRIPTION: GATCTGGAGT CCCACGTTCC CCAAGGCCAG CGGGATGTGT GCCCCTCCTC CTCCCAACTC ATCTTTCAGG AACACGAGGA TTCTTGCTTT CTGGAAAAGT GTCCCAGCTT AGGGATAAGT GTCTAGCACA GAATGGGGCA CACATTAGGT GCTTAATAAA TGCTGGATGG ATGCAGGAAA | 120 |
| 50 | SEQ ID NO:4035 SEQUENCE LENGTH:180 SEQUENCE TYPE:nucleic acid | |

| 5 | TOPOLOGY:linear CLONE:HUMGSO4764 SEQUENCE DESCRIPTION: | 777.C.C.777777 h 77 | | TAATITOT 1 A | 11C11C1C1T | 60 |
|----|--|---------------------|--------------|--------------|--------------|-----|
| 3 | GATCCTGTTT GTACAAAGTC | | | | | |
| | TAAAAAGCTG AGACCATTTT | | | | | |
| | AAGGTGCCAT CTTGTGGTAT | IGACIIGIAI | ITATAACAAA | IAAACIGCIC | AAGAGACAAA | 100 |
| 10 | SEQ ID NO:4036 SEQUENCE LENGTH:180 | | | | | |
| | SEQUENCE TYPE:nucleic TOPOLOGY:linear CLONE:HUMGS04765 | acid | | | | |
| 15 | SEQUENCE DESCRIPTION: | | | | | |
| | GATCCTGGTT ACAGCCATTT | TGTGTGATTC | ACTTCGGGGG | TTAAGTAATG | CAGGATTCTG | 60 |
| | CAAACAAGGT GTCGCCGTCC | | | | | 120 |
| | CACTGTTGTA GAGAAAACTA | | | | | |
| 20 | | | | | | |
| | SEQ ID NO:4037 | | ٠ | | | |
| | SEQUENCE LENGTH: 178 | | | | | |
| | SEQUENCE TYPE: nucleic | acid | | | | |
| 25 | TOPOLOGY:linear | | | | | |
| 25 | CLONE: HUMGS04766 | | | | | |
| | SEQUENCE DESCRIPTION: | | | | | |
| | GATCATGTAT AAAAAGAAAA | | | | | 60 |
| | AAGACTTTGT CACAAAACTG | | | | | |
| 30 | ACCAAATCCT CCATCTNTNC | AGTGTGCCTG | ATGTCACCTN | ATGATTTGCT | GTTACTNN | 178 |
| | SEQ ID NO:4038 | | | | | |
| | SEQUENCE LENGTH: 177 | | | | | |
| | SEQUENCE TYPE:nucleic | acid | | | | |
| 35 | TOPOLOGY: linear | acra | | | | |
| | CLONE: HUMGS04767 | | | | | |
| | SEQUENCE DESCRIPTION: | | | | | |
| | GATCAGGATT TGGGAAAATT | GTGGTCAATA | TTTGATTTTC | CTTTTCTGTT | TGATAGCCTT | 60 |
| 40 | ATCTAAATTC CCCTAGCTTG | AATGTAGTAA | ATATGAGTGT | GTAAAAATGT | GTATCTAATT | 120 |
| | CACCTCTTNG GGGAGGTTTA | ATGTAACTAT | AAATAAAAT | TCTTTCCCCA | GGTTAAA | 177 |
| | | | | | | |
| | SEQ ID NO:4039 | | | | | |
| 45 | SEQUENCE LENGTH: 175 | | | | | |
| | SEQUENCE TYPE:nucleic | acid | | | | |
| | TOPOLOGY: linear | | | | | |
| | CLONE: HUNGS04768 | | | | | |
| 50 | SEQUENCE DESCRIPTION: | **** | ATC 1001 100 | COTC LOTOC + | 100N0T01T0 | en |
| | GATCTTACCT CCTAACCAAC TCTTGCTTGG TCACTGCAGG | | | | | |
| | INTIDUITUU IVACIUNAUU | TUOTION VV | ~*** | | ~~~~~iiviidu | |

| | GCAGCCAGAG TAGCCTTTTT | TTGTTTTGTT | TTGTTTTGTT | TTGTTTTGTT | TTGTN | 175 |
|----|---|------------|--------------------------------|------------|---------------------|------------------|
| 5 | SEQ ID NO:4040 SEQUENCE LENGTH:175 SEQUENCE TYPE:nucleic TOPOLOGY:linear CLONE:HUMGS04769 | acid | | | | |
| 10 | SEQUENCE DESCRIPTION: GATCTTAATA GCTAAAATAT TGGTGTGCCC TTAATGCCTG ATGTCAAACT CCATTTNTA | TNACAGTTGG | CCTCTGTGAA | TATTGGTATA | ATTNTAAATA | 60 120 175 |
| 15 | SEQ ID NO:4041 SEQUENCE LENGTH:174 SEQUENCE TYPE:nucleic TOPOLOGY:linear | acid | | | | |
| 20 | CLONE:HUMGSO4770 SEQUENCE DESCRIPTION: GATCCTCAGG ATATGCAGGG GACGTGATAC TGTCACAGTG | AATTTCACAG | AAGATGGTGC | TGCCCTAACT | GAGGTTCAAT | |
| 25 | CCATGTATAA GCCAGACCAA | TCTGAAGACA | AATAAAGTAT | TTCACAGCCA | CAAA | 174 |
| 30 | SEQ ID NO:4042 SEQUENCE LENGTH:171 SEQUENCE TYPE:nucleic TOPOLOGY:linear CLONE:HUMGS04771 SEQUENCE DESCRIPTION: GATCTTCAAA CATTAACTTA | | A A A TT CTC A T | CACCCCATCT | ል ሮ ልጥጥ ላጥጥጥ | 60 |
| 35 | TTTATAAAAA TGATTTTCAC ATGTGTAACT TTTACATGTG | TATAGCTATG | TTACGCTAAG | CTACTGTCCA | ATCTCTTGTG | |
| 40 | SEQ ID NO:4043 SEQUENCE LENGTH:170 SEQUENCE TYPE:nucleic TOPOLOGY:linear CLONE:HUMGS04772 SEQUENCE DESCRIPTION: | acid | | | | |
| 45 | GATCTTTAAA GATGTGCTAA TTTTTAAATT ATACATTCAA CTCTGCTAAC AGCCGNCTGT | GGTAGTGGCC | AAATGTAACA | CATCAATCAT | GGAATGATTN | 60 120 170 |
| 50 | SEQ ID NO:4044 SEQUENCE LENGTH:169 SEQUENCE TYPE:nucleic | acid | | | | |

| | TOPOLOGY:linear CLONE:HUMGSO4773 SEQUENCE DESCRIPTION: | | | | | |
|----|--|------------|------------|------------|------------|-----|
| 5 | GATCCTTCCC AGTGGACAGA | TGAAGAATTA | GGTATCCCTC | CTGATGATGA | AGACTGAAGN | 60 |
| | TGTAGACTCA GCCTCACTCT | GTACAAGAGC | CAGGTGAGAA | TTTCAAGGAT | TATCGACTTC | 120 |
| | ATATTGCACA TTAAAGTTAC | AAATTAAAGT | GGCTTGGTCA | AGAATGAAA | | 169 |
| 10 | SEQ ID NO:4045 | | | | | • |
| | SEQUENCE LENGTH: 169 | :3 | | | | |
| | SEQUENCE TYPE:nucleic TOPOLOGY:linear | acla | | | | |
| | CLONE: HUMGS04774 | | | | | |
| 15 | SEQUENCE DESCRIPTION: | | | | | |
| | GATCTAGTGT GTAGTGAGCT | CAGTATAGAG | GACAGAGCTT | TCATCATGTA | AATTNATATG | 60 |
| | CAAAGCCAAA TNAAACGTGG | | | | AGGCCTCTTT | 120 |
| | TTCTGCCATT CAAATAATGG | AAGTTAATTA | AATTTTAAAC | AAATGTAAA | | 169 |
| 20 | CEO ID NO. 404C | | | | | |
| | SEQ ID NO:4046 SEQUENCE LENGTH:169 | | | | | |
| | SEQUENCE TYPE:nucleic | acid | | | | |
| 25 | TOPOLOGY: linear | | | | | |
| 25 | CLONE: HUMGS04775 | | | | | |
| | SEQUENCE DESCRIPTION: | | | | | |
| | GATCCATACT GAAAAAATNC | | | | | 60 |
| 30 | ATCTCTCAAG AGTGCTGAGA ATGCTGTTAA CAGCTGTCAA | | | | AAGIGIAACI | 169 |
| | middly ondoldions | INUNIANIIA | MATIONIAC | IUINIUMA | | 100 |
| | SEQ ID NO:4047 | | | | | |
| | SEQUENCE LENGTH: 168 | | | | | |
| 35 | SEQUENCE TYPE:nucleic | acid | | | | |
| | TOPOLOGY: linear | | | | | |
| | CLONE: HUMGSO4776 SEQUENCE DESCRIPTION: | | | | | |
| | GATCTCTGTT CTNGNTTGAA | TGTATTTAAT | TTCCAGCAGA | ATGAGCCCCA | TTCCTTATTT | 60 |
| 40 | TGATTGGCCA TTTATCATGT | | | | | |
| | TTTCTTTTTC TTACTGATTA | CTACAGTACA | TTTTTATATG | AAAGCAAA | | 168 |
| | SEQ ID NO:4048 | | | | | |
| 45 | SEQUENCE LENGTH: 212 | | | | | |
| | SEQUENCE TYPE:nucleic | acid | | | | |
| | TOPOLOGY:linear CLONE:HUMGS04777 | | | | | |
| | SEQUENCE DESCRIPTION: | • | | | | |
| 50 | GATCTGCTGA AGCATCTGTC | CAGCTGGTAT | CCTGTGAAAG | TTTGTAATTT | NCTGAGTAGA | 60 |
| | CATTCTTATA GAGTATTGTC | | | | | |

| | ATGTTTNCNA ATTTAAAAAT GAATGTGTGG TTTTTGCAAA | | | TGTGCAATAA | AGCTGAAGTA | 180 212 |
|----|--|------------|------------------|------------------|------------|------------|
| 5 | SEQ ID NO:4049 SEQUENCE LENGTH:167 SEQUENCE TYPE:nucleic TOPOLOGY:linear | acid | | | | |
| 10 | CLONE: HUMGS04778 SEQUENCE DESCRIPTION: | .mm | GT0000 | GQ 4 G 3 PRO 0 P | | |
| | GAACACACC ATTACATATA | | | | | |
| | GAAAGACAGC ATTACATATC TCATTGTCTT AACTGCTTTT | | | | AUAAUIAAAI | 167 |
| 15 | tentiulett metuettt | UIICCANIAA | AACAAAAIAG | UNUUNN | | 101 |
| | SEQ ID NO:4050 | | | | | |
| | SEQUENCE LENGTH: 176 | • | • | | | |
| | SEQUENCE TYPE:nucleic | acid | | | | |
| 20 | TOPOLOGY:linear | | | | | |
| | CLONE: HUMGS04779 | | | | | |
| | SEQUENCE DESCRIPTION: GATCGTTACT ATGTGTCAAA | CCCTTTCCAC | 4 A C A TTG A TT | AAGGAAGCAT | NTTCCTCATT | 60 |
| | GATGAAAAAA ATAACTCAGT | | - | | | |
| 25 | GTAGCATGCA ATGTGTTATG | | | | | 176 |
| | | | | | | |
| | SEQ ID NO:4051 | | | | | |
| | SEQUENCE LENGTH: 166 | | | | | |
| 30 | SEQUENCE TYPE:nucleic | acid | | | | |
| | TOPOLOGY: linear | | | | | |
| | CLONE: HUMGSO4780 SEQUENCE DESCRIPTION: | | | | | |
| oc | GATCTATAAC TGTACTTTGC | CTGGCGCTGT | GCGAAGGTCA | GAAAACTTAC | TGCTAGTACC | 60 |
| 35 | TAGAAACACA CAAGGCTGCC | | | | | |
| | ACAGTATGAA TTAAAAAGAA | AAANGTATTG | ANCTTCAAAT | TCTAAA | | 166 |
| | | * | | | | |
| 40 | SEQ ID NO: 4052 | | | | | |
| | SEQUENCE LENGTH: 163 | | | | | |
| | SEQUENCE TYPE:nucleic TOPOLOGY:linear | acid | | | | |
| | CLONE: HUMGS04781 | | | | | |
| 45 | SEQUENCE DESCRIPTION: | | | | | |
| - | GATCTTGTAA GTAGGAAAGC | TGTAACTAAA | AATTGTATTG | TTTGCTTATT | AGCCATGTAT | 60 |
| | CTCTTAAAAT TTTGTTATGT | TTACAACGAT | GTACCTTATT | GGCAACAAGT | TATTAGTTTG | 120 |
| | ATGTTTAACA ATAGTGCCTT | TAGTAAATNA | TTTTACAACT | AAA | | 163 |
| 50 | CEO IN NO. 1070 | | | | | |
| | SEQ ID NO:4053 SEQUENCE LENGTH:162 | | | | | |
| | | | | | | |

| 5 | SEQUENCE TYPE:nucleic TOPOLOGY:linear CLONE:HUMGSO4782 SEQUENCE DESCRIPTION: | | | | | |
|----|---|------------|--------------|------------|--------------|------------------|
| | GATCCAAAAG CTGGCTNTCT TCAGGGCAGC AGCAATGTGT NGTCCATAAC AGGCGNCCAA | ACCTTATTAA | CCTCTGCACC | CNAGGTCCTA | | 60 120 162 |
| 10 | SEQ ID NO:4054 SEQUENCE LENGTH:161 SEQUENCE TYPE:nucleic TOPOLOGY:linear | acid | | | | |
| 15 | CLONE: HUMGS04783 SEQUENCE DESCRIPTION: GATCCCTGGT CCTGCCGACA | | | | | |
| 20 | ATGTGTGTGT TTCAGCACTT TGAATAACAT CAATTAATGT | | | | GTTAATGTTG | 120 161 |
| 25 | SEQ ID NO:4055 SEQUENCE LENGTH:159 SEQUENCE TYPE:nucleic TOPOLOGY:linear CLONE:HUMGS04784 | acid | | | | |
| 30 | SEQUENCE DESCRIPTION: GATCGGCACC ACACCAGACA CCACTTCTAG CCCCGTGGAT TTTGTACAAA ACACAAGGAA | GCCGTCACCA | CCAGCACACG | | | |
| 35 | SEQ ID NO:4056 SEQUENCE LENGTH:159 SEQUENCE TYPE:nucleic TOPOLOGY:linear | acid | | | | |
| 40 | CLONE: HUMGS04785 SEQUENCE DESCRIPTION: GATCTAATTC TTTTGATAAA GATACTGGTG GCTTATGTTA NCCACCCTAN GTTTCCAGCC | GTTCTAGCTC | TTTAAAAAAG | | | |
| 45 | SEQ ID NO:4057 SEQUENCE LENGTH:158 SEQUENCE TYPE:nucleic | : acid | | | | |
| 50 | CLONE: HUNGSO4786 SEQUENCE DESCRIPTION: GATCTTGTGT TCTTTGTGCC | | A GGAGAGGGT1 | GGTTCTTTCC | ; TTTATTGTTG | i 60 |

| | AATGCTCCCA TTTAATGCTT ACAAAATGCA ATAAAAATAA | | | TTTTTTAGAC | TCCCGTCTGC | 120 158 |
|----|--|------------|------------|------------|------------|------------|
| 5 | SEQ ID NO:4058 | | | | | |
| • | SEQUENCE LENGTH: 158 | | | | | |
| | SEQUENCE TYPE:nucleio | acid | | | | |
| | TOPOLOGY: linear | duru | | | | |
| 10 | CLONE: HUMGS04787 | | | | | |
| 10 | SEQUENCE DESCRIPTION: | | | | | |
| | GATCACACTG GGGAAAAGTG | ACAGAACCAA | ATTTCAAACT | CCAGTCTTTC | TGCTTCTAGA | 60 |
| | GATTGAACTA CTAACATCTG | | | | | |
| | TAACATACAA ATAAGTGATT | AAAATTTTNG | GTGATAAA | | | 158 |
| 15 | | | | | | |
| | SEQ ID NO:4059 | | | | | |
| | SEQUENCE LENGTH: 308 | | | | | |
| | SEQUENCE TYPE:nucleic | acid | | | | |
| 20 | TOPOLOGY:linear | | | | | |
| | CLONE: HUMGS04788 | | | | | |
| | SEQUENCE DESCRIPTION: | | | | | |
| | GATCCCAAGT GATTAAAATA | | | | | 60 |
| 25 | CCGTTCTTCA CAGCTGCCTT | | | | | |
| | CTTATAAAGT GAATCTAATA | | | | | |
| | GGAAAANTTA TGAAATACAG | | | | | |
| | TTCTGCTTTA ACACCATCTT | TCATGATTAG | NAATGTTTGT | NATTGGAAAT | GTTACACCAT | |
| •• | GTAAATAN | | | | | 308 |
| 30 | SEO ID NO. 4000 | | | | | |
| | SEQ ID NO:4060 SEQUENCE LENGTH:155 | | | | | |
| | SEQUENCE TYPE:nucleic | anid | | | | |
| | TOPOLOGY: linear | aciu | | | | |
| 35 | CLONE: HUMGS04789 | | | | | |
| | SEQUENCE DESCRIPTION: | | | | | |
| | GATCAGCCCC AGATTTGACG | TGCACTCAAA | GACCTGGAAA | AATGGCAGAA | TAATCTGCTT | 60 |
| | CCATCCCGCC AGTTTGGTTT | | | | | |
| 40 | GAAGNAGCAA NNCGGAAACN | | | | | 155 |
| | SEQ ID NO:4061 | | | | | |
| | SEQUENCE LENGTH: 155 | | | | | |
| 45 | SEQUENCE TYPE: nucleic | acid | | | | |
| | TOPOLOGY: linear | | | | | |
| 1 | CLONE: HUMGS04790 | | | | | |
| (| SEQUENCE DESCRIPTION: | | | | | |
| 50 | GATCTCATTA GTATGTTTTT | | | | | 60 |
| UU | AATTATAAAG GAATATATAT | | | TAATGTCTAA | ACATTATACT | 120 |
| | TACTTTTCCA TAATAAAGGA | AATTTTGGAA | CCAAA | | | 155 |

| 5 | SEQ ID NO:4062 SEQUENCE LENGTH:155 SEQUENCE TYPE:nucleic TOPOLOGY:linear CLONE:HUMGS04791 SEQUENCE DESCRIPTION: | acid | | | · | |
|----|---|------------|------------|------------|------------|-----|
| | GATCTTAAAA CCCAAGACAT | TATATTTGAA | GGGGCACAGC | AAACAGTGCA | AGAAAATCTG | 60 |
| 10 | CTGATGGAAG ATNATTTTNA | TCAGTCCTCA | GANCCAGAAA | CTATAAAACT | GGGAAGGAAA | 120 |
| | GTTTAAATAA AGANTTTATT | TCCAAATTCA | GCAAA | | | 155 |
| 15 | SEQ ID NO:4063 SEQUENCE LENGTH:153 SEQUENCE TYPE:nucleic TOPOLOGY:linear CLONE:HUMGS04792 | acid | | | | |
| | SEQUENCE DESCRIPTION: | | | | | |
| 20 | GATCTAAGNA GGATTCAACA | | | | | 60 |
| | AAATCTTTGT GAACATTCTG | | - | TCATTCCCTG | CTACCTGATT | |
| • | TCAGCACAAT AAATATACTT | CTGCTGTGGG | AAA | | | 153 |
| 25 | SEQ ID NO:4064 SEQUENCE LENGTH:152 SEQUENCE TYPE:nucleic TOPOLOGY:linear | acid | | | | |
| | CLONE: HUMGS04793 | | | | | |
| 30 | SEQUENCE DESCRIPTION: | | | | | |
| | GATCTTAGCT GTATGGAGTA | ACTATTTCAG | AAAACCCTAT | AAGAAGTTCA | TTTTCTTTCA | 60 |
| | AAAGTAACAG TATATTATTT | GTACAGTGTA | GTATACAAAC | CATTATGATT | TATGCTACTT | 120 |
| | AAAAATATTA AAATAGAGTG | GTCTGTGTTA | AA | | | 152 |
| 35 | CCO ID NO. 40CE | | | | | |
| | SEQ ID NO:4065 SEQUENCE LENGTH:149 | | | | | |
| | SEQUENCE TYPE: nucleic | acid | | | | |
| | TOPOLOGY: linear | | | | | |
| 40 | CLONE: HUMGS04794 | | | | | |
| | SEQUENCE DESCRIPTION: | | | | | |
| | GATCAGAGAA GGCTGAAGAA | | | | | |
| _ | CGGGCAACCT CCCTGAAGCC | | ATGAAGAAGA | AGGAGAGACA | GCCACAGAAG | |
| 45 | AGACGGAAGA AATAGCCATG | GAGGGTGCN | | | | 149 |
| | SEQ ID NO:4066 | | | | | |
| | SEQUENCE LENGTH: 149 | | | | | |
| 50 | SEQUENCE TYPE:nucleic | acid | | | | |
| 00 | TOPOLOGY: linear | | | | | |

| 5 | CLONE:HUMGS04795 SEQUENCE DESCRIPTION: GATCAACTAT GGGTTTATAT AATACAAGTA TTTTTTTAA GCATATTGGT TGAAAAATAT | CAGGNAACAT | | 60 120 149 |
|----|---|------------|--|------------------|
| 10 | SEQ ID NO:4067 SEQUENCE LENGTH:148 SEQUENCE TYPE:nucleic TOPOLOGY:linear CLONE:HUMGSO4796 | acid | | |
| 15 | SEQUENCE DESCRIPTION: GATCTCTGTG ACCCATACCC AAATTTNCTG GTTTTATGGC CCTGGACACC CAGCTTTAAA | TCAGGGGGCA | | |
| 20 | SEQ ID NO:4068 SEQUENCE LENGTH:147 SEQUENCE TYPE:nucleic TOPOLOGY:linear | acid | | |
| 25 | CLONE:HUMGS04797 SEQUENCE DESCRIPTION: GATCATTTTC TTGGGACCTT GGTACTTGCT GCAAGTNCTT TNTNCTCCAG ATTCTTGTTA | GAACTATTTT | | 60 120 147 |
| 35 | SEQ ID NO:4069 SEQUENCE LENGTH:148 SEQUENCE TYPE:nucleic TOPOLOGY:linear CLONE:HUMGS04798 | acid . | | |
| 40 | SEQUENCE DESCRIPTION: GATCAGAGAA GCAGATATTG GATGACTGCA AAATGGAAGA ATTGAATCTT TTACTNACCT | CCTACTTTCA | | 60 120 148 |
| 45 | SEQ ID NO:4070 SEQUENCE LENGTH:149 SEQUENCE TYPE:nucleic TOPOLOGY:linear CLONE:HUMGS04799 SEQUENCE DESCRIPTION: | acid | | |
| 50 | GATCTTTCAC ACACTGGTGA TGAGGCCGCA CTGTCAGCTG TAATAAAGTC CCACAGGTGC | GCCGGTCCAA | | 60 120 149 |

| | SEQ ID NO:4071 | | | | | |
|-----|------------------------|------------|------------|------------|------------|-----|
| | SEQUENCE LENGTH: 146 | | | | | |
| | SEQUENCE TYPE: nucleic | acid | | | | |
| 5 | TOPOLOGY:linear | | | | | |
| | CLONE: HUMGS04800 | | | | | |
| | SEQUENCE DESCRIPTION: | | | | | |
| | GATCCCCTTC AAGTCTCTCT | GACCTTTCTT | CTGCCCTCCA | GCCTGGGTGA | CAGAGCTAGA | 60 |
| 10 | GTCTGTCTCA AATAATAATA | ATAATACAAT | AAATAAATAA | ATAAATAAAT | AAATAAATAA | 120 |
| | ATAAATAAAG TACGCTTTCC | ATTAAA | | | | 146 |
| | SEQ ID NO:4072 | | | | | |
| | SEQUENCE LENGTH: 146 | | | | | |
| 15 | SEQUENCE TYPE:nucleic | acid | | | | |
| | TOPOLOGY: linear | | | | | |
| | CLONE: HUMGS04801 | | | | | |
| | SEQUENCE DESCRIPTION: | | | | | |
| 20 | GATCTCATAG AGCCCAGTTC | TTAGAGTCAA | CTAAAGAGTT | GATAGGAATT | TACTAGGTCC | 60 |
| | AGGGAGAAAA GGCAGTGGTT | GGGGTTACTG | GAAATTTTGC | TCATTTTCTC | TAATGACTGT | 120 |
| | ATGAATAAAA GTGAACTTAC | | | | | 146 |
| 0.5 | SEQ ID NO:4073 | | | | | |
| 25 | SEQUENCE LENGTH: 146 | | | | | |
| | SEQUENCE TYPE:nucleic | acid | | | | |
| | TOPOLOGY:linear | | | | | |
| | CLONE: HUMGS04802 | | | | | |
| 30 | SEQUENCE DESCRIPTION: | | | | | |
| | GATCTGAACT TACAGACAGT | TGCCAAATTT | CTCTAGATAA | GAAAATAAAG | AATAGAGGGA | 60 |
| | ACCTAACTGG ATAACAAAAA | AAAAGGAGAG | AGAAAAATGC | CATTGCAGTT | AAAGGTTATT | 120 |
| | AAATAAAGCT TAGTGTCAAT | GTCAAA | | | | 146 |
| 35 | | | | | | |
| | SEQ ID NO:4074 | | | | | |
| | SEQUENCE LENGTH: 146 | | | | | |
| | SEQUENCE TYPE:nucleic | acid | | | | |
| 40 | TOPOLOGY:linear | | | | | |
| | CLONE: HUNGS04803 | | | | | |
| | SEQUENCE DESCRIPTION: | | | | | |
| | GATCAGGAGG GACCACAAGG | | | | | |
| | TGGGAAAACT TCAGAGTGAG | | GGTCTATTAA | AAGGCCTTTN | TTGTCATTCA | |
| 45 | GTGATATGTG NCTGGCCCCT | GAGAAA | | | | 146 |
| | SEQ ID NO:4075 | | | | | |
| | SEQUENCE LENGTH: 144 | | | | | |
| 50 | SEQUENCE TYPE:nucleic | acid | | | | |
| | TOPOLOGY: linear | | | | | |

| | | | | | | • |
|-----|--|------------|---|--------------------|--------------|-----|
| | CLONE: HUMGS04804 | | | | | • |
| | SEQUENCE DESCRIPTION: GATCAAAAAA TTATTTTAT | TTATCCTAGC | TTTACGTGCA | TCTCACGGAA | ACAGGATACA | 60 |
| 5 | CGGTGTATAT ATTATNATGC | | | | | |
| | TGTTTAATCT GTTGCCTCTG | | | ••• | | 144 |
| | | | | | | |
| | SEQ ID NO:4076 | | | | | |
| 10 | SEQUENCE LENGTH: 143 | 2 . 1 | | | | |
| | SEQUENCE TYPE:nucleic TOPOLOGY:linear | acid | | | | |
| | CLONE: HUNGSO4805 | | | | | |
| | SEQUENCE DESCRIPTION: | | | | | |
| 15 | GATCACTGGG CCTACCTGCA | CTGTGGGGCC | AAGCCCTGTC | TTTTTCCCAA | GCCCTCAAGC | 60 |
| | ACACGCATGA ATGTTCATCC | | | | | 120 |
| | AGATTCACAT TGCTTTTTTT | AAA | | | | 143 |
| 20 | SEQ ID NO:4077 | | | | | |
| 20 | SEQUENCE LENGTH: 143 | | | | | |
| | SEQUENCE TYPE:nucleic | acid | | | | |
| | TOPOLOGY: linear | | | | | |
| ne. | CLONE: HUMGS04806 | | | | | |
| 25 | SEQUENCE DESCRIPTION: | | | | | |
| | GATCTGTCAT NNTTTAGCAG | | | | | 60 |
| | AGGAAAATCT NTAAGGNGAT | | AAAGGCAGCT | GGTATAATCG | GTTACTGCTG | |
| | CTTAGTTCTA CTTAATTTTN | NNN | | | | 143 |
| 30 | SEQ ID NO:4078 | | | | | |
| | SEQUENCE LENGTH: 142 | | | | | |
| | SEQUENCE TYPE:nucleic | acid | | | | |
| 0E | TOPOLOGY: linear | | | | | |
| 35 | CLONE: HUNGS04808 | | | | | |
| | SEQUENCE DESCRIPTION: | | | | | |
| | GATCTGCCTC TCAGGAAAAA | | | | | 60 |
| 40 | GTGAGATTTC TCTATTTTTT | | TTTTATTTCT | TTCAACAAAT | ATAAAATAAA | |
| 40 | AAACAACTTT GGNNCANTGA | AA | | | | 142 |
| | SEQ ID NO:4079 | | | | | |
| | SEQUENCE LENGTH: 142 | | | | | |
| 45 | SEQUENCE TYPE:nucleic | acid | | | | |
| | TOPOLOGY:linear | | | | | |
| | CLONE: HUNGS04809 | | | | | |
| | SEQUENCE DESCRIPTION: GATCCTGGCT AACCCTNGCC | | ርር ተጠር | ∆ CCTGG&CCT | TCCC ATTTC A | κn |
| 50 | ATCATGCAGA TGGTTTCTTT | | | | | |
| | TAAAGACTGC ATTCATCTCA | | .100011100 | | | 142 |
| | | | | | | |

| 5 | SEQ ID NO:4080 SEQUENCE LENGTH:141 SEQUENCE TYPE:nucleic TOPOLOGY:linear CLONE:HUMGS04810 SEQUENCE DESCRIPTION: | acid | | |
|----|---|------------|--|------------------|
| 10 | GATCTTCTTC TCTCTTGTCC AATACTTGAN TGGGCCATGG TTTGTCATTT GCAATGTTAA | TGCCTTTTTT | | |
| 15 | SEQ ID NO:4081 SEQUENCE LENGTH:140 SEQUENCE TYPE:nucleic TOPOLOGY:linear CLONE:HUMGSO4811 | acid | | |
| 20 | SEQUENCE DESCRIPTION: GATCCCGTTT TCCCCATGAC TGCCTCTTGT ATCCCTAGTG CTGGTTAGAC GTGTCTCAAA | | | |
| 25 | SEQ ID NO:4082 SEQUENCE LENGTH:138 SEQUENCE TYPE:nucleic TOPOLOGY:linear CLONE:HUMGSO4812 | acid | | |
| 30 | SEQUENCE DESCRIPTION: GATCTGTGCA GCAAACCACC CACGTGTACC CCTGAAATTA ACAAACAACA ACAACAAA | | | |
| 35 | SEQ ID NO:4083 SEQUENCE LENGTH:138 SEQUENCE TYPE:nucleic TOPOLOGY:linear | acid | | |
| 40 | CLONE:HUMGS04813 SEQUENCE DESCRIPTION: GATCTATCAA AGGAAAAGGA CAGGGTTCTC AAATGTGTTG AATGAATAGA GGTCCAAA | | | 60 120 138 |
| | SEQ ID NO:4084 SEQUENCE LENGTH:137 SEQUENCE TYPE:nucleic | acid | | |
| 50 | TOPOLOGY: linear | | | |

| 5 | CLONE:HUMGSO4814 SEQUENCE DESCRIPTION: GATCACAATG TCATTTCCTA TGATTAAAAT TATTTCCCAC TGTTCTACAC CAAGAAA | | | | |
|----|---|------|------|------------|------------------|
| 10 | SEQ ID NO:4085 SEQUENCE LENGTH:137 SEQUENCE TYPE:nucleic TOPOLOGY:linear | acid | | | |
| 15 | CLONE:HUMGS04815 SEQUENCE DESCRIPTION: GATCCACTGC CTCAGCCTCC TTTANNNNTA ATATAAAGCA CAAGGGTGAA AAATAAA | | | | 60 120 137 |
| 20 | SEQ ID NO:4086 SEQUENCE LENGTH:136 | | | | |
| | SEQUENCE TYPE:nucleic TOPOLOGY:linear CLONE:HUMGS04816 | acid | | | |
| 25 | SEQUENCE DESCRIPTION: GATCCATGCC TGTAGTCCAA GGAGGCAGAG GTCACAGTGA GAGACTCCAT CTCAAA | | | GTGACAGAGC | 60 120 136 |
| 30 | | | | | 130 |
| 35 | SEQ ID NO:4087 SEQUENCE LENGTH:136 SEQUENCE TYPE:nucleic TOPOLOGY:linear CLONE:HUMGS04817 SEQUENCE DESCRIPTION: | acid | | | |
| 40 | GATCTGGTCC CTGTAGCACA GGAAGTNATG GGAAAGACTT GCCAAGAGAC AACAAN | | | | |
| | SEQ ID NO:4088 SEQUENCE LENGTH:135 | | | | |
| 45 | SEQUENCE TYPE:nucleic TOPOLOGY:linear CLONE:HUMGSO4818 SEQUENCE DESCRIPTION: | acid | | | |
| 50 | GATCTACAAC ACCTGCCAGT CACATGCATG TCTGCCTATG GTGTGAACCC CCAAA | | | | |

| 5 | SEQ ID NO:4089 SEQUENCE LENGTH:133 SEQUENCE TYPE:nucleic TOPOLOGY:linear. CLONE:HUMGSO4819 | acid | | |
|----|---|------|--|------------------|
| 10 | SEQUENCE DESCRIPTION: GATCTGCTGA CAGTGAGTAG AGATGTCTTC CCCCCTTTTG ACAGAAAACT AAA | | | |
| 15 | SEQ ID NO:4090 SEQUENCE LENGTH:132 SEQUENCE TYPE:nucleic TOPOLOGY:linear CLONE:HUMGS04820 SEQUENCE DESCRIPTION: | acid | | |
| 20 | GATCCTTACA TATGCCATCC GTTATTTATT ATTGTTAATA GCAATCTTCA AA | | | |
| 25 | SEQ ID NO:4091 SEQUENCE LENGTH:132 SEQUENCE TYPE:nucleic TOPOLOGY:linear CLONE:HUMGS04821 | acid | | |
| 30 | SEQUENCE DESCRIPTION: GATCAAACAG AGGCATGCTA GCTATATGTT TGTAGGGATT ATCTCAGCCA AA | | | 60 120 132 |
| 35 | SEQ ID NO:4092 SEQUENCE LENGTH:132 SEQUENCE TYPE:nucleic TOPOLOGY:linear | acid | | |
| 45 | CLONE:HUMGS04822 SEQUENCE DESCRIPTION: GATCAGTGGG GGAGGGCACC TATCCAAGAG CACCAGGCTG ATAATGATTA AA | | | |
| 50 | SEQ ID NO:4093 SEQUENCE LENGTH:130 SEQUENCE TYPE:nucleic | acid | | |

| 5 | CLONE:HUMGS04823 SEQUENCE DESCRIPTION: GATCGGGGGT GGGATGGGAT AAGGTTTTCC GGTTTGTGTT GTTGAGTAAA | | | | |
|----|---|------|------|----|------------------|
| 10 | SEQ ID NO:4094 SEQUENCE LENGTH:128 SEQUENCE TYPE:nucleic TOPOLOGY:linear CLONE:HUMGS04824 | acid | | | |
| 15 | SEQUENCE DESCRIPTION: GATCACAGAG GGAGGAGCTC CTGTACCTCT GACCACTTGT AGGTCAAA | | | | 60 120 128 |
| 20 | SEQ ID NO:4095 SEQUENCE LENGTH:126 SEQUENCE TYPE:nucleic TOPOLOGY:linear CLONE:HUMGS04826 | acid | | | |
| 25 | SEQUENCE DESCRIPTION: GATCTTTGCC TNTAAGCTTG GGTATATTTN ACTACATTTT ATANNN | | | | |
| 30 | SEQ ID NO:4096 SEQUENCE LENGTH:124 SEQUENCE TYPE:nucleic TOPOLOGY:linear CLONE:HUMGS04827 | acid | | | |
| 40 | SEQUENCE DESCRIPTION: GATCTGAAAT TCTGAGATAT AACTTAACAC CNGTCTTGTA CAAA | | | | 60 120 124 |
| 45 | SEQ ID NO:4097 SEQUENCE LENGTH:123 SEQUENCE TYPE:nucleic TOPOLOGY:linear CLONE:HUMGS04828 SEQUENCE DESCRIPTION: | acid | | ч. | |
| 50 | GATCTCAGAA CTGTGCCAAG GAGTCAGCCT GGTGTTGCCC AAA | | | | 60 120 123 |

| 5 | SEQ ID NO:4098 SEQUENCE LENGTH:122 SEQUENCE TYPE:nucleic TOPOLOGY:linear CLONE:HUMGSO4829 SEQUENCE DESCRIPTION: GATCCTACAA ACAGACATTT | TCCACTCGTG | | | | |
|------------|---|------------|------------|------------|------------|------------------|
| 10 | TTGGGCATGT GAATCTCCAA AA SEQ ID NO:4099 | GTGCCTGTNT | AATAAATAAA | GTATCTTTAT | TTCATTCATA | 120 122 |
| 15 | SEQUENCE LENGTH: 121 SEQUENCE TYPE: nucleic TOPOLOGY: linear CLONE: HUMGS04830 SEQUENCE DESCRIPTION: | | | | | |
| 20 | GATCTTCTCG CCTCAGCCTC CTCATTTGAG ATTTCTGAGT A | | | | | 60 120 121 |
| 25 | SEQ ID NO:4100 SEQUENCE LENGTH:121 SEQUENCE TYPE:nucleic TOPOLOGY:linear CLONE:HUMGS04831 SEQUENCE DESCRIPTION: | acid | | | | |
| | GATCAATCTC TCCCTCAGCT TCATTCTTCT GCTTCATTGG A | | | | | 60 120 121 |
| 35 | SEQ ID NO:4101 SEQUENCE LENGTH:121 SEQUENCE TYPE:nucleic TOPOLOGY:linear | acid | | | | |
| 45 | CLONE:HUMGS04832 SEQUENCE DESCRIPTION: GATCGACTGA GTCCAGAAAG GNTGNCAGAG GNAGACCCTG A | | | | | 60 120 121 |
| 50 | SEQ ID NO:4102 SEQUENCE LENGTH:119 SEQUENCE TYPE:nucleic | acid | | | | |
| V U | TOPOLOGY: linear | | | | | |

| 5 | CLONE: HUMGSO4833 SEQUENCE DESCRIPTION: GATCGGTAGG GGGCCTGCTC TGCCCACTGC NTCCNTCCCT | | | |
|----|---|------|--|-----------|
| 10 | SEQ ID NO:4103 SEQUENCE LENGTH:116 SEQUENCE TYPE:nucleic TOPOLOGY:linear CLONE:HUMGSO4834 SEQUENCE DESCRIPTION: | | | |
| 15 | GATCACCCTT AAATCNGNGT TCAATATGTA TCTTAATATG | | | 60 116 |
| 20 | SEQ ID NO:4104 SEQUENCE LENGTH:115 SEQUENCE TYPE:nucleic TOPOLOGY:linear CLONE:HUMGS04835 | acid | | |
| 25 | SEQUENCE DESCRIPTION: GATCTGGGTG GTAGTTACTG AGGATTTGCA ATCTTTTCTG | | | 60 115 |
| 30 | SEQ ID NO:4105 SEQUENCE LENGTH:115 SEQUENCE TYPE:nucleic TOPOLOGY:linear CLONE:HUMGS04836 SEQUENCE DESCRIPTION: | acid | | |
| 35 | GATCTTAGCT AAATCTCGGT CACAAATTGA AGCATGTACA | | | 60 115 |
| 40 | SEQ ID NO:4106 SEQUENCE LENGTH:115 SEQUENCE TYPE:nucleic TOPOLOGY:linear CLONE:HUMGSO4837 | acid | | |
| 45 | SEQUENCE DESCRIPTION: GATCCTNCAC CTCTTGGNAA CAGTTGTAGG GTTTCTGTTG | | | 60 115 |
| 50 | SEQ ID NO:4107 SEQUENCE LENGTH:115 SEQUENCE TYPE:nucleic TOPOLOGY:linear | acid | | |

| 5 | CLONE:HUMGS04838 SEQUENCE DESCRIPTION: GATCAGACAA GGAATGAAGC ACTGCAAATN NCTGGGATAG | | | | 60 115 |
|----|--|------|---|------|-----------|
| 10 | SEQ ID NO:4108 SEQUENCE LENGTH:115 SEQUENCE TYPE:nucleic TOPOLOGY:linear CLONE:HUMGS04839 | acid | | | |
| 15 | SEQUENCE DESCRIPTION: GATCCCAACT TGAAACAACA TATTGATTGG TTTATATGCC | | | | 60 115 |
| 20 | SEQ ID NO:4109 SEQUENCE LENGTH:112 SEQUENCE TYPE:nucleic TOPOLOGY:linear CLONE:HUMGSO4840 | acid | | | |
| 25 | SEQUENCE DESCRIPTION: GATCAGCTCC GTGGGACTGA GGGGAATGCA AAAGAAANCA | | • | | 60 112 |
| 30 | SEQ ID NO:4110 SEQUENCE LENGTH:111 SEQUENCE TYPE:nucleic TOPOLOGY:linear CLONE:HUMGS04841 SEQUENCE DESCRIPTION: | acid | | | |
| 35 | GATCGCCCAA TAAACATTCC TGCTAGCTGT AGAAATGTAT | | | | 60 111 |
| 40 | SEQ ID NO:4111 SEQUENCE LENGTH:111 SEQUENCE TYPE:nucleic TOPOLOGY:linear CLONE:HUMGSO4842 | acid | | | |
| 45 | SEQUENCE DESCRIPTION: GATCGGCATA TGCATATCAA ANAATTTTTT AATGAAACAT | | | | 60 111 |
| 50 | SEQ ID NO:4112 SEQUENCE LENGTH:111 SEQUENCE TYPE:nucleic TOPOLOGY:linear | acid | | | |

| 5 | CLONE:HUMGS04843 SEQUENCE DESCRIPTION: GATCATACTN CTTTATCTAG A CAGTTACATC AAGAACAAGC T | | | | 60 111 |
|----|---|------|--|------------|-----------|
| 10 | SEQ ID NO:4113 SEQUENCE LENGTH:110 SEQUENCE TYPE:nucleic a TOPOLOGY:linear CLONE:HUNGS04844 SEQUENCE DESCRIPTION: | | | | |
| 15 | GATCACAGTG CAGATAATTA C GATACGTGTA GGCAAGGATG T | | | AAAGACAAAA | 60 110 |
| 20 | SEQ ID NO:4114 SEQUENCE LENGTH:110 SEQUENCE TYPE:nucleic a TOPOLOGY:linear CLONE:HUMGS04845 | acid | | | |
| 25 | SEQUENCE DESCRIPTION: GATCTTAGTC CGTTTTTTT T TGTATTATAG TCATGCGGTC T | | | ACCCCCCTNN | 60 110 |
| 30 | SEQ ID NO:4115 SEQUENCE LENGTH:110 SEQUENCE TYPE:nucleic a TOPOLOGY:linear CLONE:HUMGS04846 SEQUENCE DESCRIPTION: | acid | | | |
| 35 | GATCTGGGAC TTCCAGAAAA C | | | TTAAACCACC | 60 110 |
| 40 | SEQ ID NO:4116 SEQUENCE LENGTH:109 SEQUENCE TYPE:nucleic a TOPOLOGY:linear CLONE:HUMGS04847 | acid | | | |
| 45 | SEQUENCE DESCRIPTION: GATCTATCAT AAAAAGCAAT G TAGTACATAT TACAATTAGT G | | | CATTTACAAT | 60 109 |
| 50 | SEQ ID NO:4117 SEQUENCE LENGTH:109 SEQUENCE TYPE:nucleic a TOPOLOGY:linear | acid | | | |

| 5 | CLONE: HUMGS04848 SEQUENCE DESCRIPTION: GATCAAAACA GGTGACAGTG GAGAGTGGTC AGCATTTTAC | | | GTGTATGTAT | 60 109 |
|----|---|---|---|------------|-----------|
| 10 | SEQ ID NO:4118 SEQUENCE LENGTH:109 SEQUENCE TYPE:nucleic TOPOLOGY:linear CLONE:HUMGS04850 | acid | | | |
| 15 | SEQUENCE DESCRIPTION: GATCTATATA ATTTATGTAT TNATTTTTT TTTTTGNACC | • | | ATCACAATTA | 60 109 |
| 20 | SEQ ID NO:4119 SEQUENCE LENGTH:107 SEQUENCE TYPE:nucleic TOPOLOGY:linear CLONE:HUMGS04851 | acid | | | |
| 25 | SEQUENCE DESCRIPTION: GATCATGTTG CTGGCTTTTA ACATGGTAAT GAAGCACTGT | | | CAGCCTTTGC | 60 107 |
| 30 | SEQ ID NO:4120 SEQUENCE LENGTH:118 SEQUENCE TYPE:nucleic TOPOLOGY:linear CLONE:HUNGSO4852 | acid | | | |
| 35 | SEQUENCE DESCRIPTION: GATCCGTGAG GGCGTGANTT CTTGCCACAA AGTGGGCTCT | | | | 60 118 |
| 40 | SEQ ID NO:4121 SEQUENCE LENGTH:108 SEQUENCE TYPE:nucleic TOPOLOGY:linear CLONE:HUMGS04853 | acid | · | | |
| 45 | SEQUENCE DESCRIPTION: GATCGTCTGA GCCCCNCGGG ACTGCAGGGT TTCGCCCAAT | | | AAACAGTTAC | 60 108 |
| 50 | SEQ ID NO:4122 SEQUENCE LENGTH:107 SEQUENCE TYPE:nucleic | acid | | | |

| 5 | CLONE: HUMGSO4854 SEQUENCE DESCRIPTION: GATCTTTTAT ACTCAGNTTN CATAAACANG CCACANGGAC | | | | ACTGGCATAC | 60 107 |
|--------|--|------------|------------|------------|----------------|-----------|
| 10 | SEQ ID NO:4123 SEQUENCE LENGTH:107 SEQUENCE TYPE:nucleic TOPOLOGY:linear CLONE:HUMGSO4855 SEQUENCE DESCRIPTION: GATCCGGAAC CCACTTTTT | | CATCGTCGTT | TGGCCNTTCC | ATCNNTCTTT | 60 |
| 15 | NTCTTTCCCT CTGCCATCCG | TGACACTGAT | AGTTNGTCAT | ATAAATN | | 107 |
| 20 | SEQ ID NO:4124 SEQUENCE LENGTH:106 SEQUENCE TYPE:nucleic TOPOLOGY:linear CLONE:HUMGS04856 | acid | | | | |
| 25 | SEQUENCE DESCRIPTION: GATCTCCAAT CTCCTCGGTT NNNCTCAGTG ATTGGCTTAC | | | | CAATACTTGN | 60 106 |
| 30 | SEQ ID NO:4125 SEQUENCE LENGTH:102 SEQUENCE TYPE:nucleic TOPOLOGY:linear CLONE:HUMGS04859 SEQUENCE DESCRIPTION: | acid | | | | |
| 35 | GATCAAAATC ACGTTTGTAG GTTCATGTTC CTATGTTATT | | | | TTGTTTTNAT | 60 102 |
| 40 | SEQ ID NO:4126 SEQUENCE LENGTH:101 SEQUENCE TYPE:nucleic TOPOLOGY:linear CLONE:HUMGS04860 | acid | | | | |
| 45 | SEQUENCE DESCRIPTION: GATCTACGGC AATGTGAATC AATTCACTAA TGTTAATGTT | | | | TGAGTAAATG | 60 101 |
| 50 | SEQ ID NO:4127 SEQUENCE LENGTH:100 SEQUENCE TYPE:nucleic TOPOLOGY:linear | acid | | | | |

| 5 | CLONE: HUMGS04861 SEQUENCE DESCRIPTION: GATCCCCCCT CAGGACAAAT CTACTCCAGC CACGATGAGA AGTGGGTGAG CCAGGGTCTG AGTTTCACAT TTGAACCAAA TAAAATGCTG TCAAGAGAAA | i 60 100 |
|----|---|-------------|
| 10 | SEQ ID NO:4128 SEQUENCE LENGTH:97 SEQUENCE TYPE:nucleic acid TOPOLOGY:linear CLONE:HUMGS04862 SEQUENCE DESCRIPTION: GATCATGCCA TTGCACTGCA CCTGGGCAAC AAGAGTGAAA CTCCGTCTTA AAAAATATAA | |
| | GAAATAAAAA AATAAAAACC TGTCCCCAGA CTGGAAA | 97 |
| 20 | SEQ ID NO:4129 SEQUENCE LENGTH:97 SEQUENCE TYPE:nucleic acid TOPOLOGY:linear CLONE:HUMGS04863 | |
| 25 | SEQUENCE DESCRIPTION: GATCCTGAGC TAGGAGAGTA CATTTTGCAG ACCTTTGGTT TCCATATTAA GAAATTCAGA TTTTNATGTA CAATAAAGAA GTTCTGGAAT TCTCAAA | 60 97 |
| 30 | SEQ ID NO:4130 SEQUENCE LENGTH:96 SEQUENCE TYPE:nucleic acid TOPOLOGY:linear CLONE:HUMGS04864 | |
| 35 | SEQUENCE DESCRIPTION: GATCTCTNTN CAGCCCTAAA GCTCCTTGGT TCTGTAATTC CACCAATAGC CCATTTCAAA AATAATTCTA CAGTAATCAG TGGGACTCCT GTTTTN | 60 96 |
| 40 | SEQ ID NO:4131 SEQUENCE LENGTH:95 SEQUENCE TYPE:nucleic acid TOPOLOGY:linear CLONE:HUMGS04865 | |
| 45 | SEQUENCE DESCRIPTION: GATCACACCA CTGCACTCAA GCCTTGGCAT CAGAGTGAGA CTCTGTCTCA GTAAAAAAAAAA | 60 95 |
| 50 | SEQ ID NO:4132 SEQUENCE LENGTH:95 SEQUENCE TYPE:nucleic acid TOPOLOGY:linear | |

| | CLONE: HUMGS04866 SEQUENCE DESCRIPTION: | 1011111011 | ATAGAGAGAG | T1111C1C11 | CCAACACAAA | 60 |
|----|--|------------|------------|------------|------------|----------|
| 5 | GATCGTAGGG CATCAGAAAA GAACTCAATA AACAAAAACA | | | IAAAAUAUAA | GCAACAGAAA | 60 95 |
| 10 | SEQ ID NO:4133 SEQUENCE LENGTH:98 SEQUENCE TYPE:nucleic TOPOLOGY:linear CLONE:HUMGS04867 | acid | | | | |
| 15 | SEQUENCE DESCRIPTION: GATCTTTATT GTTCCTCACC TTTTTAAGTA AAATGTAAAT | | | GTACTTCCCC | CACCCCCTT | 60 98 |
| 20 | SEQ ID NO:4134 SEQUENCE LENGTH:94 SEQUENCE TYPE:nucleic TOPOLOGY:linear CLONE:HUMGS04868 | acid | | | | |
| 25 | SEQUENCE DESCRIPTION: GATCTAATAA GTATTGGAAT AAGTCTAACA AAGACTTTTT | | | AGTACCAAAT | AGTATTATTG | 60 94 |
| 30 | SEQ ID NO:4135 SEQUENCE LENGTH:94 SEQUENCE TYPE:nucleic TOPOLOGY:linear CLONE:HUMGS04869 | acid | | | | |
| 35 | SEQUENCE DESCRIPTION: GATCGAGGTA AGAGGGACTT TTTTTTGAGA AATAAAATGA | | | GGATGGGGCG | GCGGAGGGAA | 60 94 |
| 40 | SEQ ID NO:4136 SEQUENCE LENGTH:92 SEQUENCE TYPE:nucleic TOPOLOGY:linear CLONE:HUMGS04870 | acid | | | | |
| 45 | SEQUENCE DESCRIPTION: GATCACACCG CAGACATTA ATAGAGAATA AATTGAATTC | | | TTTAAAAAAA | TGTTTTATAA | 60 92 |
| 50 | SEQ ID NO:4137 SEQUENCE LENGTH:91 SEQUENCE TYPE:nucleic TOPOLOGY:linear | acid | | | | |

| | CLONE:HUMGS04872 SEQUENCE DESCRIPTION: GATCTTTACT GATGCACTCA | TGACAAGTAC | CCAATGTATT | TTAGCTATTT | TAGTAGTATT | 60 |
|----|--|------------|------------|------------|-----------------|----------|
| 5 | TGTTCAATAA ATACGCAAGC SEQ ID NO:4138 SEQUENCE LENGTH:91 | TGTAAGGTAA | A | | | 91 |
| | SEQUENCE TYPE:nucleic TOPOLOGY:linear CLONE:HUMGSO4873 SEQUENCE DESCRIPTION: | acid | | | | |
| 15 | GATCTGCTTT TCTGCATGTT TAAAATGCAA ATGCACTCAT | | | GTGTGATTTT | CATGGAAAAA | 60 91 |
| 20 | SEQ ID NO:4139 SEQUENCE LENGTH:90 SEQUENCE TYPE:nucleic TOPOLOGY:linear CLONE:HUMGSO4874 SEQUENCE DESCRIPTION: | acid | | | | |
| 25 | GATCAAAAAA AATAAATCAC ACACTACATA TTAAAATTAT | | AGAAAATATT | TTTCACTGAA | GGCTAACAAA , | 60 90 |
| 30 | SEQ ID NO:4140 SEQUENCE LENGTH:90 SEQUENCE TYPE:nucleic TOPOLOGY:linear CLONE:HUMGSO4875 SEQUENCE DESCRIPTION: | acid , | | | *** | • |
| 35 | GATCTTTTGA TGTGCACTAA AGTTAAATAA ACTGTTACAG | | GGTAATGCCG | GTTATTGGTG | AATACAGCAT | 60 90 |
| 40 | SEQ ID NO:4141 SEQUENCE LENGTH:89 SEQUENCE TYPE:nucleic TOPOLOGY:linear CLONE:HUMGSO4877 SEQUENCE DESCRIPTION: | acid | | | | • |
| 45 | GATCTAGGGC AAACTTGTCC CAAATCTATA AATTTNCTTA | | CCATGGAACA | GCTTTGAATG | CAGCCCAACA | 60 89 |
| 50 | SEQ ID NO:4142 SEQUENCE LENGTH:88 SEQUENCE TYPE:nucleic | acid | | | - | |

| 5 | CLONE: HUMGS04878 SEQUENCE DESCRIPTION: GATCAGTCTC ATGGGCCATC GGAATAAAGT GGACATTTA | | ATGTAAATAA | TATCTGGTTA | AGTGTTATAT | 60 88 |
|----|--|------|------------|------------|------------|----------|
| 10 | SEQ ID NO:4143 SEQUENCE LENGTH:88 SEQUENCE TYPE:nucleic TOPOLOGY:linear CLONE:HUMGS04879 SEQUENCE DESCRIPTION: | acid | | | | |
| 15 | GATCTCAGTG ATGTTTGAAC TGATTAATAA AGAAGAGAAA | | ACTTTTTATT | AAGTCTTTGT | ATCTCTCGAC | 60 88 |
| 20 | SEQ ID NO:4144 SEQUENCE LENGTH:87 SEQUENCE TYPE:nucleic TOPOLOGY:linear CLONE:HUMGSO4881 | acid | | | | |
| 25 | SEQUENCE DESCRIPTION: GATCTTTATT GGTGACCTTT ATAATAAAGT GGCATTTCTT | | TAGTTTGAGG | TACTACCTAT | GTACTTGAAA | 60 87 |
| 30 | SEQ ID NO:4145 SEQUENCE LENGTH:86 SEQUENCE TYPE:nucleic TOPOLOGY:linear CLONE:HUMGSO4882 | acid | · | | | |
| 35 | SEQUENCE DESCRIPTION: GATCCACTTT GTACTCCTAC AATAAAATCT CTTCTTAATT | | GGTCTTCTAA | CAGAGAAGAT | TATAGCAAAA | 60 86 |
| 40 | SEQ ID NO:4146 SEQUENCE LENGTH:86 SEQUENCE TYPE:nucleic TOPOLOGY:linear CLONE:HUMGS04883 | acid | | | | |
| 45 | SEQUENCE DESCRIPTION: GATCCAAAGT CCAGCTCTCT CAGGAATTNA GCTTACTTGC | | TTATCTTTCG | GAAAGCTTCC | AACAGTAACT | 60 86 |
| 50 | SEQ ID NO:4147 SEQUENCE LENGTH:85 SEQUENCE TYPE:nucleic TOPOLOGY:linear | acid | | | | |

| 5 | CLONE: HUMGS04884 SEQUENCE DESCRIPTION: GATCTAAAGA AGAAGGTTCA TCTTGTCTCA AAAGGCCAAA | | AGAATTTAGA | GAAAATATAA | AGAAATAATT | 60 85 |
|----|--|------|------------|------------|------------|----------|
| 10 | SEQ ID NO:4148 SEQUENCE LENGTH:84 SEQUENCE TYPE:nucleic TOPOLOGY:linear CLONE:HUMGSO4885 | acid | | | · | |
| 15 | SEQUENCE DESCRIPTION: GATCCAGCTG TGCCTAAAGC AGTCCCTTTC TTGTTTAAGA | | TCCGGACTTT | AAAGTTTTGT | GAGCCAATAA | 60 84 |
| 20 | SEQ ID NO:4149 SEQUENCE LENGTH:84 SEQUENCE TYPE:nucleic TOPOLOGY:linear CLONE:HUMGS04886 | acid | | | | |
| 25 | SEQUENCE DESCRIPTION: GATCTGAAAA GGCATTAATT TTATTAAATA CAGATGGACT | | TTCTATAAAC | ATGTATTAAT | AATTGCAGTA | 60 84 |
| 30 | SEQ ID NO:4150 SEQUENCE LENGTH:83 SEQUENCE TYPE:nucleic TOPOLOGY:linear CLONE:HUMGS04887 | acid | | | | |
| 35 | SEQUENCE DESCRIPTION: GATCAGGCCC CCCAACTCTC ATAAAAAAAA GTACTAAAAT | | TACAAACATG | CAAATTAGAA | TTCTTTTAAT | 60 83 |
| 40 | SEQ ID NO:4151 SEQUENCE LENGTH:83 SEQUENCE TYPE:nucleic TOPOLOGY:linear CLONE:HUMGS04888 | acid | | | | |
| 45 | SEQUENCE DESCRIPTION: GATCAGAGGG NAGTACAGAA AAATGGTAGC AAAACATTCT | | AAAGCNTTAA | GTACATACCA | TACAGCAAAT | 60 83 |
| 50 | SEQ ID NO:4152 SEQUENCE LENGTH:83 SEQUENCE TYPE:nucleic | acid | | | | |

| | CLONE: HUMGS04889 | | | | | |
|----|--|------------|------------|------------|------------|----------|
| 5 | SEQUENCE DESCRIPTION: GATCTAAAAT TTGTAATATT 1 TAAAAATAGT TACAGTNACT A | | ACTGTACTAC | TCCTAATTAT | TGTAATGTAA | 60 83 |
| 10 | SEQ ID NO:4153 SEQUENCE LENGTH:81 SEQUENCE TYPE:nucleic a TOPOLOGY:linear CLONE:HUMGS04890 SEQUENCE DESCRIPTION: GATCACATGG TTCACTACCA A | AATNACCCTC | AAATAAGCCA | GATGAAAATT | TGAAGAAAAA | 60 |
| | GGTCACCCAG TTCTCTGGAA A | A | | | | 81 |
| 20 | SEQ ID NO:4154 SEQUENCE LENGTH:81 SEQUENCE TYPE:nucleic a TOPOLOGY:linear CLONE:HUMGS04891 | acid | | | | |
| 25 | SEQUENCE DESCRIPTION: GATCAGAGCG TAGTTTTAAN T AAATTTTTAC TTAGGAGCAA A | | ATACACTTGT | GAAATATTTT | ATAGAAATAA | 60 81 |
| 30 | SEQ ID NO:4155 SEQUENCE LENGTH:81 SEQUENCE TYPE:nucleic a TOPOLOGY:linear CLONE:HUMGSO4892 | acid | | | | |
| 35 | SEQUENCE DESCRIPTION: GATCCTTCCT CCCACCCTAN O TCCCTCTGCC CNGNCCTCAA A | | CCTCTTTCCT | CCTCACTCTC | CCCGTCATGC | 60 81 |
| 40 | SEQ ID NO:4156 SEQUENCE LENGTH:80 SEQUENCE TYPE:nucleic a TOPOLOGY:linear CLONE:HUMGS04893 | acid | | | | |
| 45 | SEQUENCE DESCRIPTION: GATCCAAANT AGTAACNTTT 1 AAAATAGTTA CAGTGACAAA | TNTNATGAAC | TGTACTACTC | CTAATTATTG | TAATGTAATA | 60 80 |
| 50 | SEQ ID NO:4157 SEQUENCE LENGTH:79 SEQUENCE TYPE:nucleic a | acid | | | | |

| 5 | CLONE:HUMGSO4894 SEQUENCE DESCRIPTION: GATCATTAGT CAATTGCTTT AACATCTATA AGAATTAAA | AATTATAAGC | CCTGTTTTTT | TTTAAATCTA | AAAACTAATA | 60 79 |
|------|--|------------|------------|------------|------------|----------|
| 10 | SEQ ID NO:4158 SEQUENCE LENGTH:79 SEQUENCE TYPE:nucleic TOPOLOGY:linear CLONE:HUMGSO4895 SEQUENCE DESCRIPTION: GATCNACTGT CAAAAAGAAG | | AAATAAAATG | AGAGCAATTA | ТАТАТАТААА | 60 |
| 15 | TATATATCAT ACACAGAAA | ddiioaadia | MATRAMIO | AUAGOMI IA | | 79 |
| 20 | SEQ ID NO:4159 SEQUENCE LENGTH:76 SEQUENCE TYPE:nucleic TOPOLOGY:linear CLONE:HUMGSO4897 | acid | | | | |
| 25 | SEQUENCE DESCRIPTION: GATCACCTGA ATTCTGGAGG GAGAGCCTGT CTTAAA | TTGAGGCTGC | ACCACTACAT | TCCAGCCTGG | GAGATAGAGT | 60 76 |
| 30 | SEQ ID NO:4160 SEQUENCE LENGTH:76 SEQUENCE TYPE:nucleic TOPOLOGY:linear CLONE:HUMGSO4898 | acid | | | | |
| 35 | SEQUENCE DESCRIPTION: GATCCCAAAT NTTCCCACAA AATGTATAGA AGGAAA | GCTTTATTCC | AAAAATAATT | TTATTTAATA | GGTATTAAAT | 60 76 |
| 40 . | SEQ ID NO:4161 SEQUENCE LENGTH:74 SEQUENCE TYPE:nucleic TOPOLOGY:linear CLONE:HUMGSO4900 | acid | | | | |
| 45 | SEQUENCE DESCRIPTION: GATCTTCCTG TTTCAGTCCC CCTTTATACT CAAA | CAAGGTGTTG | GGATTATGGG | CATGAACTGC | TGCACCCAGC | 60 74 |
| 50 | SEQ ID NO:4162 SEQUENCE LENGTH:73 SEQUENCE TYPE:nucleic TOPOLOGY:linear | acid | | | | |

| 5 | CLONE:HUMGS04902 SEQUENCE DESCRIPTION: GATCACTGGT ATGTAGATAA ATGTGATAAT AAA | TAAAATGTGA | AAATAAAAT | TTAAAAATAA | AACAAAAATT | 60 73 |
|----|--|------------|------------|------------|------------|----------|
| 10 | SEQ ID NO:4163 SEQUENCE LENGTH:73 SEQUENCE TYPE:nucleic TOPOLOGY:linear CLONE:HUMGSO4903 | acid | | | | |
| 15 | SEQUENCE DESCRIPTION: GATCGTGCAA CTGCACTCCG GAGAGAGATG AAA | GCTTGGGCTA | CAGAGTGAGA | CTCCATCAGA | AAGAAAAGAA | 60 73 |
| 20 | SEQ ID NO:4164 SEQUENCE LENGTH:74 SEQUENCE TYPE:nucleic TOPOLOGY:linear CLONE:HUMGS04904 | acid | · | | | |
| 25 | SEQUENCE DESCRIPTION: GATCAGCATG TAAAGTGTCT ATTGGAATGA TAAA | GGCGTGTAGT | AGGCTCTTAA | TAAACACTGG | CTGAATATGA | 60 74 |
| 30 | SEQ ID NO:4165 SEQUENCE LENGTH:72 SEQUENCE TYPE:nucleic TOPOLOGY:linear CLONE:HUMGS04905 | acid | | | | |
| 35 | SEQUENCE DESCRIPTION: GATCTCAACT CGTGGCACTA TTTACAAGCA AA | ACTTGGAAAA | GGGTTGATTT | AAAATAAAAG | GGAAGACTAT | 60 72 |
| 40 | SEQ ID NO:4166 SEQUENCE LENGTH:70 SEQUENCE TYPE:nucleic TOPOLOGY:linear CLONE:HUMGS04907 | acid | | | | |
| 45 | SEQUENCE DESCRIPTION: GATCCTAAAC AGATGCATTG TTACACTAAA | TTGCTTTTCT | GTGCTGTCTC | TGCAGATTAA | AACATAATGA | 60 70 |
| 50 | SEQ ID NO:4167 SEQUENCE LENGTH:135 SEQUENCE TYPE:nucleic | acid | | | | |

| 5 | CLONE:HUMGSO4908 SEQUENCE DESCRIPTION: GATCTATTAT GCCTTTTTAC A TTTCCTTACT TCCTTCCCTT T GGCCTTCTTA TTAAA | | | | | 60 120 135 |
|-----------|---|------------|------------|------------|------------|------------------|
| 10 | SEQ ID NO:4168 SEQUENCE LENGTH:69 SEQUENCE TYPE:nucleic a TOPOLOGY:linear | acid | | | | |
| . 15 | CLONE:HUMGS04909 SEQUENCE DESCRIPTION: GATCTCCCTG GAGGTTTCAT A ATCCTGAAA | AGCAAGGTTT | GACTTGATGA | ATTAATTAAT | AAAGCTAAAT | 60 69 |
| 20 | SEQ ID NO:4169 SEQUENCE LENGTH:67 SEQUENCE TYPE:nucleic a TOPOLOGY:linear | acid | | | | |
| 25 | CLONE:HUMGS04910 SEQUENCE DESCRIPTION: GATCACCCAC GGGGAGGAGA A TTGGAAA | .GGAGGAGTG | AGACCCAGCC | GGGTCAATAA | ACCTGGACGC | 60 67 |
| 30 | SEQ ID NO:4170 SEQUENCE LENGTH:65 SEQUENCE TYPE:nucleic action of the control of | eid | | | | |
| 35 | CLONE:HUMGS04912 SEQUENCE DESCRIPTION: GATCTGCTTA TAAATAAACT T. ACAAA | 'AACAAATAC | ACTATGGAGA | TTAAAAACAA | AATACCACCC | 60 65 |
| 40 | SEQ ID NO:4171 SEQUENCE LENGTH:64 SEQUENCE TYPE:nucleic a TOPOLOGY:linear | acid | | | | |
| 45 | CLONE:HUMGS04913 SEQUENCE DESCRIPTION: GATCTGTTTC TCTAGAAAAA A. CAAA | AGTCCATCT | CTGGCTTTAA | TAAAATTATG | CATCAGAAAT | 60 64 |
| 50 | SEQ ID NO:4172 SEQUENCE LENGTH:76 SEQUENCE TYPE:nucleic a | acid | | | | |

| 5 | TOPOLOGY: linear CLONE: HUMGS04914 SEQUENCE DESCRIPTION: GATCTCATGC TNAGCAGAGC AAAAATTGTA AAATATTTTG ATTAAAAATC TAGGGACCTT TATGTCCTAT TTGAAA | 60 76 |
|----|--|----------|
| 10 | SEQ ID NO:4173 SEQUENCE LENGTH:63 SEQUENCE TYPE:nucleic acid TOPOLOGY:linear CLONE:HUMGSO4915 | • |
| 15 | SEQUENCE DESCRIPTION: GATCAGGAAG TGGCTTTGTG TCTTCCCACA TGTATGTATA AATAAAGTGT TCTTTTAAGC AAA | 60 63 |
| 20 | SEQ ID NO:4174 SEQUENCE LENGTH:63 SEQUENCE TYPE:nucleic acid TOPOLOGY:linear | |
| 25 | CLONE: HUMGSO4916 SEQUENCE DESCRIPTION: GATCCTCATT TTTTCCCATT GTAAAATTGG GCTAATAAAA GATGCTACCT ACTGACTATT AAA | 60 63 |
| 30 | SEQ ID NO:4175 SEQUENCE LENGTH:62 SEQUENCE TYPE:nucleic acid TOPOLOGY:linear CLONE:HUMGSO4917 | |
| 35 | SEQUENCE DESCRIPTION: GATCACGCTA CTGCACTCCA GCACTCCAGC GCAGGCAACA GAGGGAGACT CTTTGTCTCA AA | 60 62 |
| 40 | SEQ ID NO:4176 SEQUENCE LENGTH:62 SEQUENCE TYPE:nucleic acid TOPOLOGY:linear CLONE:HUMGSO4918 | |
| 45 | SEQUENCE DESCRIPTION: GATCCTGAAT TTCCCAGCCA ACAGAACCAA GTGCTAAATA AAACTCTTTT TAATAAGTTA AA | 60 62 |
| 50 | SEQ ID NO:4177 SEQUENCE LENGTH:62 SEQUENCE TYPE public acid | |

| 5 | TOPOLOGY:linear CLONE:HUMGSO4919 SEQUENCE DESCRIPTION: GATCAAAACT CTGTTCTCAA AAATAAATAA AAAATAAAAA ACAAAACAAC AACAACAACA AA | 60 62 |
|----|---|----------|
| 10 | SEQ ID NO:4178 SEQUENCE LENGTH:61 SEQUENCE TYPE:nucleic acid TOPOLOGY:linear | |
| 15 | CLONE:HUMGSO4920 SEQUENCE DESCRIPTION: GATCACGCCA CTGCATTCCA GCCTGGGAGA CAGAGTGAGA AATAAATAAC TGTAATGTAA | 60 61 |
| 20 | SEQ ID NO:4179 SEQUENCE LENGTH:60 SEQUENCE TYPE:nucleic acid TOPOLOGY:linear CLONE:HUMGSO4921 | |
| 25 | SEQUENCE DESCRIPTION: GATCCAAGCA AACTACTTTA AGCAAATATT TGTAAAATTA AAAACGGAGG ACCGCTCAAA | 60 |
| 30 | SEQ ID NO:4180 SEQUENCE LENGTH:60 SEQUENCE TYPE:nucleic acid TOPOLOGY:linear CLONE:HUMGSO4922 SEQUENCE DESCRIPTION: | |
| 35 | GATCTAACAG TTCTCCAATA AAATAGTTCT CATTCCAGAG AGCAGATGAA TATATTTAAA | 60 |
| 40 | SEQ ID NO:4181 SEQUENCE LENGTH:59 SEQUENCE TYPE:nucleic acid TOPOLOGY:linear CLONE:HUMGSO4923 SEQUENCE DESCRIPTION: | |
| 45 | GATCTATGAC TGTACTACAC TCCAGCCTGG TCAACAAAGC AAGACCATAT CTCTTTAAA | 59 |
| 45 | SEQ ID NO:4182 SEQUENCE LENGTH:59 SEQUENCE TYPE:nucleic acid | |
| 50 | TOPOLOGY:linear CLONE:HUMGSO4924 SEQUENCE DESCRIPTION: | |

. 55

| | GATCCAAGTA TTTNATCTGT GTTGTCTCTC TAAACCCAAA TAAATGTGTA AATGTGAAA | 59 |
|----|--|----|
| 5 | SEQ ID NO:4183 SEQUENCE LENGTH:59 SEQUENCE TYPE:nucleic acid | |
| 10 | TOPOLOGY:linear CLONE:HUMGS04925 SEQUENCE DESCRIPTION: | |
| | GATCCAATAC ACACATANCT TACAACTATC ACAAATTCCT ATTAAATATT AAAAGTAAA | 59 |
| | SEQ ID NO:4184 | |
| | SEQUENCE LENGTH:59 | |
| 15 | SEQUENCE TYPE:nucleic acid | |
| | TOPOLOGY: linear | |
| | CLONE: HUMGS04926 | |
| 20 | SEQUENCE DESCRIPTION: GATCTCAAAN NGAAATCTTA TACCAGTGAC AACTGTATTA GAATATATCT GTTCTTAAA | 59 |
| 20 | UNICIONALI MUNANICITA INCONUIDAC ANCIGINITA UNAINTAICI UTICITANA | 33 |
| | SEQ ID NO:4185 | |
| | SEQUENCE LENGTH:57 | |
| 25 | SEQUENCE TYPE: nucleic acid | |
| | TOPOLOGY: linear | |
| | CLONE: HUNGS04927 | |
| | SEQUENCE DESCRIPTION: GATCTCATAT TAATATTTTA ATATTTCTTT TCAAAATAAA ACAGAAAAGC AAGTAAA | 57 |
| 30 | UNICIONIAL INNINITITÀ MINITICITI IONNAINAN ACAUNAMUC ANGIAM | 31 |
| | SEQ ID NO:4186 | |
| | SEQUENCE LENGTH: 57 | |
| | SEQUENCE TYPE: nucleic acid | |
| 35 | TOPOLOGY: linear | |
| | CLONE: HUNGSO4928 | |
| | SEQUENCE DESCRIPTION: | 57 |
| | GATCTGTGTG TTCTTTCAAA GAGAAGTTAT GTCTAATTAA AATGTGTAAC GGACAAA | 31 |
| 40 | SEQ ID NO:4187 | |
| | SEQUENCE LENGTH: 57 | |
| | SEQUENCE TYPE:nucleic acid | |
| | TOPOLOGY: linear | |
| 45 | CLONE: HUNGSO4929 | |
| | SEQUENCE DESCRIPTION: | 57 |
| | GATCCGNGAG AGAACGACCA CAATTTAAAC ACATCAATAA ATACTTTAAC TTCCAAA | JI |
| | SEQ ID NO:4188 | |
| 50 | SEQUENCE LENGTH:56 | |
| | SEQUENCE TYPE:nucleic acid | |

| | TOPOLOGY:linear CLONE:HUMGS04930 SEQUENCE DESCRIPTION: | | | | | |
|----|--|------------|------------|------------|--------|----|
| 5 | GATCAAGAAG GACTACCTGT | CATGTGAGAC | CATCACTAAG | AAACCATTTG | CTGAAA | 56 |
| 10 | SEQ ID NO:4189 SEQUENCE LENGTH:52 SEQUENCE TYPE:nucleic TOPOLOGY:linear CLONE:HUMGS04940 SEQUENCE DESCRIPTION: | acid | | | | |
| | GATCCCACTT CGGTCTGTAA | ATTCCCTCAA | TAAATCACCC | AATATTGACA | AA | 52 |
| 20 | SEQ ID NO:4190 SEQUENCE LENGTH:51 SEQUENCE TYPE:nucleic TOPOLOGY:linear CLONE:HUMGS04945 | acid | | | | |
| | SEQUENCE DESCRIPTION: GATCCCCAAA GCTTAAAATA | TCGACTATTT | AGAGTGAGAC | TCCATCACAA | A | 51 |
| 25 | SEQ ID NO:4191 SEQUENCE LENGTH:51 SEQUENCE TYPE:nucleic TOPOLOGY:linear | acid | | | | |
| 30 | CLONE:HUMGS04947 SEQUENCE DESCRIPTION: GATCAGCCAN GCATTCCAGC | CTGGTGACAG | AGCGAGACTC | TGTCTCNGAA | A | 51 |
| 35 | SEQ ID NO:4192 SEQUENCE LENGTH:56 SEQUENCE TYPE:nucleic TOPOLOGY:linear CLONE:HUMGS04948 | acid | | | | |
| 40 | SEQUENCE DESCRIPTION: GATCTTGTTT GTTGAGGGAG | ATGGGACTAT | AATAAAATTG | AATGCTGAAG | TTGAAA | 56 |
| 45 | SEQ ID NO:4193 SEQUENCE LENGTH:50 SEQUENCE TYPE:nucleic TOPOLOGY:linear CLONE:HUMGS04950 | acid | | | | |
| 50 | SEQUENCE DESCRIPTION: GATCGCGCCA CTGCGTTACA | GCCTGGCGAT | AATGCAGGAC | TCAGTCCAAA | | 50 |

| 5 | SEQ ID NO:4194 SEQUENCE LENGTH:113 SEQUENCE TYPE:nucleic TOPOLOGY:linear CLONE:HUMGSO4965 | acid | | | | |
|------|---|------------|------------|------------|------------|-----------|
| 10 | SEQUENCE DESCRIPTION: GATCTGTCTT GTAAACCACA TATGTGACTT TNGTCTTGAA | | | | | 60 113 |
| | | | | | , | |
| | SEQ ID NO:4195 SEQUENCE LENGTH:192 | | | | ٠, | |
| 15 | SEQUENCE TYPE:nucleic | acid | | | | |
| | TOPOLOGY:linear CLONE:HUMGS04985 | | | | | |
| | SEQUENCE DESCRIPTION: | | | | | |
| • | GATCATTATG CAATAAAGCT | GCTAAAGTNA | CATTTGTGGT | TGATACTCAA | GCCTTGTACA | 60 |
| 20 | AGCACATATN ATGTAGACAT | TTTNAAATGT | NAAGCTTTAA | CAGGAATAGG | ATAGCTGTTT | 120 |
| . • | CAAACCTTGT GCAATTGTAA | ATAAATTGTT | TAGCTGTGTT | TCTTTCATTT | TNAATAAAAA | |
| | ATTAAAAAGA AA | | | | | 192 |
| | SEQ ID NO:4196 | | | | | |
| 25 | SEQUENCE LENGTH: 50 | | | | | |
| | SEQUENCE TYPE:nucleic | acid | | | | |
| | TOPOLOGY:linear | | | | | |
| 30 | CLONE: HUMGS04986 SEQUENCE DESCRIPTION: | | | | | |
| | GATCAATTTG TAATTGCTTA | CATTTTTACA | ATAAATAATC | TGTACGTAAA | | 50 |
| | | | | • | | |
| | SEQ ID NO:4197 | | | | | |
| 35 | SEQUENCE LENGTH:282 SEQUENCE TYPE:nucleic | naid | | | | |
| * | TOPOLOGY: linear | aciu | | | | |
| | CLONE: HUMGS04987 | | | | • | |
| | SEQUENCE DESCRIPTION: | | | | | |
| 40 . | GATCTTTCTT TGGCAACCAC | | | | | |
| | TATTGGAATC ATATAGTATG ATTAAGGTTC CTCCATGTCA | | | | | |
| | ATACTCCATT GTCTAGATGA | | | | | |
| 45 . | TTCCAAGTTT TGGCAATTAT | | | | | 282 |
| | SEQ ID NO:4198 | | | | | |
| | SEQUENCE LENGTH: 257 | • | | | | |
| F.O. | SEQUENCE TYPE: nucleic | acid | | | | |
| 50 | TOPOLOGY:linear | | • | | | |
| | CLONE · HUMGS04988 | • | | | | |

| | SEQUENCE DESCRIPTION | • | | | | |
|------|-----------------------|--------------|-------------|------------|-----------------|-----|
| | GATCTTTTCA GTCAAAAAT | | TATTTTGTAT | CACTTTGTTA | AAAGCTGAAT | 60 |
| | ATTGTTAACT ACAGTTAAT | | | | | |
| 5 | ACCACTTCTG GTTGCCTCT | | | | | |
| • | CTAACTTGTA CAAACTGAC | | | | | |
| | AATTATTCAG NGTTAAA | u lululoimoi | nioni domio | | 111011011111111 | 257 |
| | AATTAITONG INGITAAA | | | | | 201 |
| | SEQ ID NO:4199 | | • | | | |
| 10 | SEQUENCE LENGTH: 132 | | | | | |
| | SEQUENCE TYPE: nuclei | c acid | | | | |
| | TOPOLOGY: linear | 0 40.4 | | | | |
| | CLONE: HUMGS04989 | | • | | | |
| 15 | SEQUENCE DESCRIPTION | | | | | |
| | GATCCAGGNG TTGACTATA | | TCTTTGCTTA | CTAGGNTTTC | CATNNTCACC | 60 |
| | ATTGGATGAA CCNCTGGTT | | | | | 120 |
| | TAGAAAGTGA AA | | • | | | 132 |
| 20 | | | | | | • |
| 25 | SEQ ID NO:4200 | | | | | |
| | SEQUENCE LENGTH:51 | | | | | |
| | SEQUENCE TYPE:nuclei | c acid | | | | |
| | TOPOLOGY: linear | | | | | |
| 25 . | CLONE: HUMGS04990 | | | | | |
| | SEQUENCE DESCRIPTION | : | | | | |
| | GATCCGCATC CAAGCTTAA | | ATAAACGTGC | TAGGAAGCAA | A | 51 |
| | | | | | | |
| 30 | SEQ ID NO:4201 | | | | | |
| | SEQUENCE LENGTH: 108 | | | | | |
| | SEQUENCE TYPE: nuclei | c acid | | | | |
| | TOPOLOGY: linear | | | | | |
| 35 | CLONE: HUMGS04991 | | | | | |
| 33 | SEQUENCE DESCRIPTION | : | | | | |
| | GATCAGTCGC TGACTCATT | A GATGAACCAG | GAGCCTGCAT | GCTACAGCCC | ACCTGCCAAA | 60 |
| | TCTTGCCCCC ACCTGCTTT | T TAAAATAAAG | TTTTATTGGA | ACATGAAA | | 108 |
| | | | | | | |
| 40 | SEQ ID NO:4202 | | | | | |
| | SEQUENCE LENGTH: 113 | • | | | | |
| | SEQUENCE TYPE:nuclei | c acid | | | | |
| | TOPOLOGY:linear | | | | | |
| 45 | CLONE: HUMGS04992 | | | | | |
| | SEQUENCE DESCRIPTION | | | | | |
| | GATCTTTGCT CTGTTTCC | | | | | |
| | CTCCTGTTCA GACATTCCT | A TGTTGAATAA | AGTATGTTTG | ACTTCCCCGG | AAA | 113 |
| 50 | 484 ** NA | | | | | |
| | SEQ ID NO:4203 | | | | | |
| | SEQUENCE LENGTH: 471 | | | | | |

| | SEQUENCE TY | PE:nucleic | acid | | | | |
|----|----------------|-------------|-------------------|------------------|---------------------|-------------|-----|
| | TOPOLOGY: 1 is | near | | | • | | |
| | CLONE: HUMGS | 04993 | | | | | |
| 5 | SEQUENCE DES | SCRIPTION: | | | | | |
| | GATCCCACCT (| CAAATTAGCT | TGATTGCAAA | ACAGATATTG | GAACATGGAG | CTGAGAAGAA | 60 |
| | GATGGTCTGG (| | | | | | |
| | TCTNCTGTGT 1 | | | | | | |
| | CATATGATGG (| | | | | | |
| 10 | TGGGAAGCCC 1 | | | | | | |
| | ACTCCGATTT (| | | | | | |
| | GTTGGTGGGG (| | | | | | |
| | GTTGGAGNAA N | | | | | | 471 |
| 15 | diiddadaa i | IIIIAADDDDI | TINCCCAAAA | AUAAAMUUMA | AUGITIONIA | | 411 |
| | SEQ ID NO:42 | 204 | | | • | | |
| | SEQUENCE LEN | | | | | | |
| | SEQUENCE TYP | | anid | | | | |
| •• | TOPOLOGY: lir | | actu | | | | |
| 20 | CLONE: HUMGS | | | | | | • |
| | SEQUENCE DES | | | | | | |
| | | | 1.C.1.TT.1.TT.1.C | * ****** * CC*** | A A C T T C T A C C | 10°°° 1000° | 60 |
| | GATCAGGAAT C | | | | | | 60 |
| 25 | AATACATAAA A | | | | | | |
| | TATTTTTCAG T | | | | | | |
| | AGTATTTAT A | | | | | | |
| | AATTAAATCC I | | | | CTAAANICIT | ACGIGIAAGI | |
| 00 | NCTACTACAN T | LAAATANTTT | CTGGAAACCT | TTTATAĀA | | | 338 |
| 30 | CEO ID NO. 40 | 205 | | | | | |
| | SEQ ID NO:42 | | | | | | |
| | SEQUENCE LEN | | | | | | |
| | SEQUENCE TYP | | acid | | | | |
| 35 | TOPOLOGY: lin | | | | | | |
| | CLONE: HUMGSO | | | | | | |
| | SEQUENCE DES | | | | | | |
| | GATCACCTTC C | | | | | | 60 |
| 40 | AGANCTGTGC A | | | | | | |
| 40 | GTCGGGTTNG A | | | | | | |
| | GCCCGNNTAC A | ACTCCTACGT | NTCCANGGGC | TTNGGCCGTG | ACTTAGGNAG | AGGAGTN | 237 |
| | | | | - | | | |
| | SEQ ID NO: 42 | | | | | | |
| 45 | SEQUENCE LEN | | | | | | |
| | SEQUENCE TYP | | acid | | | | |
| | TOPOLOGY: lin | | | | | | |
| | CLONE: HUMGSO | | | | | | |
| 50 | SEQUENCE DES | | | | | | |
| | GATCATCCGC A | | | | | | |
| | GTGGAAAATA T | PPGTAGGTAA | AACAAACTAC | CTCATCCTCT | CAACCTTTTC | TAGAAGCACA | 120 |

| | ATTAAACATC TAAAATGGCT | TTGTTACACC | AGAGCCATCT | GGTGTGANGA | ACTCTATATT | 180 |
|----|---|------------|-------------|------------|------------|-----|
| | TGTATGTTGA GAGGGCATGG | ANTAATTGTA | TTTNGCTGGC | AGTAGACACA | TTCTTTATTA | 240 |
| | TTTGCAGATT CCTCATCAAA | TCTGTANTTA | TGCACAGTTT | CTGTTATCAT | TAAAACAAAG | 300 |
| 5 | GAATCCNGTT AAA | | ٠ | | | 313 |
| | SEQ ID NO:4207 | | | | | |
| | SEQUENCE LENGTH: 271 | | | | | |
| 10 | SEQUENCE TYPE:nucleic | acid | | | | |
| | TOPOLOGY: linear | | | | | |
| | CLONE: HUMGS04999 | | | | | |
| | SEQUENCE DESCRIPTION: | | | | | |
| 15 | GATCACATCT NTNTGAAGCC | AAAGCCCCGT | GGTTGCCCAT | GAGAAGTGTC | CTTTTTCATT | 60 |
| 13 | TTCACCCAAA TGAAGTGTGA | ACGTGATGTT | TTCGGATGCA | AACTCAGCTC | AGGNATTCAT | 120 |
| | TTTGTNTCTT AGTTTTATAT | GCATCCTTAT | TTNTAATACA | CCTGCTTCAC | GTCCCTATGT | 180 |
| | TNGGAAGTCC ATATTTGTNT | GCTTTTNTTG | CAGCATCATT | GCCTNTACAA | TACTGNCCGG | 240 |
| | TGGACAAANT GACAATNGAT | ATGTNTTGCT | N | | | 271 |
| 20 | | | | | | |
| | SEQ ID NO:4208 | | | | | |
| | SEQUENCE LENGTH: 345 | | | | | |
| | SEQUENCE TYPE:nucleic | acid | | | | |
| 25 | TOPOLOGY: linear | | | | | |
| | CLONE: HUMGS05001 | | | | | |
| | SEQUENCE DESCRIPTION: | | | | | |
| | GATCGCACTG TGGGCCGGGG | | | | | 60 |
| 00 | GCCCTCCTCA CCTGTTGCCG | | | | | |
| 30 | AGCACCGGAG AAGGGGGTGC | | | | | |
| | GCGCCTGCTG CTCTGCCCCA | | | | | |
| | CGGTCCCCGA GCAAGCCTGG | | | | ATTCTAAATC | |
| | TTAAGTGCAA TTATTTTTAA | TAAAAGGGGT | ATTTGGAATC | AGAAA | • | 345 |
| 35 | CEO ID NO. 4000 | | | | | |
| | SEQ ID NO:4209 | | | | | |
| | SEQUENCE LENGTH: 406 SEQUENCE TYPE: nucleic | :- | | | | |
| | TOPOLOGY: linear | aciu | | | | |
| 40 | CLONE: HUMGS05002 | | | | | |
| | SEQUENCE DESCRIPTION: | | | | | |
| | GATCTTACTT TCATAATTCT | TTGATTCTAG | CTTGCAGAGT | CAAGACGNAA | ACNTAACTCA | 60 |
| | TGGGATGGAC AAACTGGAAG | | | | | |
| 46 | CTTACAGAAA ATCAAATTTT | | | | | |
| 45 | ATGCAATAGA AATAGCTATA | | | | | |
| | CCCAACTTTT CACACATCTT | | | | | |
| | CTGAAGTATT CCCACCAGAG | | | | | |
| | TTTTTTAACA TTGTAACAAA | | | | Thinting | 406 |
| 50 | AAAAMIDII KUMMAAA | GIMILITUMA | COLIMITATAL | | | 100 |

55

SEQ ID NO:4210

| 5 | SEQUENCE LENGTH: 74 SEQUENCE TYPE: nucleic TOPOLOGY: linear CLONE: HUMGS 05003 SEQUENCE DESCRIPTION: GATCTAAAAA AANNTAAATT CAAAAAAAAA TAAA | | CACAACATAA | GAAAAAGACA | GGGACAAAAA | 60 74 |
|----|--|------------|------------|------------|------------|----------|
| 10 | CAAAAAAAA IAAA | | | | | 14 |
| 70 | SEQ ID NO:4211 SEQUENCE LENGTH:230 SEQUENCE TYPE:nucleic TOPOLOGY:linear | acid | | | | |
| 15 | CLONE:HUMGS05004 SEQUENCE DESCRIPTION: | | | | | |
| | GATCCTATGT GGAAGGGCTG | | | | | |
| | ATTGCTTTTT GTATACCAAT | | | | | |
| 20 | TCCTGTTGAT GTTAAATTAC | • | | | | |
| | TAAATTTAAT ATAACATATG | CNGTAATAAN | CCATTNGTNT | TACGGGCAAA | | 230 |
| 25 | SEQ ID NO:4212 SEQUENCE LENGTH:161 SEQUENCE TYPE:pucleic | • 1 | | | | |
| | TOPOLOGY:linear CLONE:HUMGS05005 | acio | | | | |
| 30 | SEQUENCE DESCRIPTION: GATCTCAATC AAGTTAGCAT | CCTTVCTCCA | CCTCCCCTAT | MACCTCCCAC | CTCATCACAA | 60 |
| | AGAACCACGG CCACCCAGGT | | | | | |
| | GGCTCTNTTT GTGGGGCCCA | | | | CMITGINGIG | 161 |
| | | | | | | |
| 35 | SEQ ID NO:4213 | | | | | |
| | SEQUENCE LENGTH: 259 SEQUENCE TYPE: nucleic | ani d | | | | |
| | TOPOLOGY: linear | aciu | | | | |
| • | CLONE: HUMGS05006 | | | | | |
| 40 | SEQUENCE DESCRIPTION: | | | | | |
| | GATCGAGACC ATCCTGGCCA | | | | | 60 |
| | GCTGGACATG GTGGCGGGCG | | | | | |
| | GGCTTNGAGG CAGTAGAACT | | | | | |
| 45 | GTGTCATTGC ACTCCAGCCT CTTCAGCTTT TGCATGAAA | GGGGAACAGA | GCGAGACTCC | ATCTCAAAAA | AAATAAAAA | |
| | CITCAUCITI IUCATUAAA | | | | | 259 |
| • | SEQ ID NO:4214 | | | | | |
| E0 | SEQUENCE LENGTH:71 | | | | | |
| 50 | SEQUENCE TYPE:nucleic | acid | | | | |
| | TOPOLOGY:linear | | | | | |

| i | CLONE:HUMGS05007 SEQUENCE DESCRIPTION: GATCATGCTT TAAGGTTTAT AAAGATTTAA A | GTAAAGAAAG | TGTACTGATG | TTCTTACATT | AAAGCTTTAC | 60 71 |
|--------------|--|----------------------|---------------|------------|------------|----------|
| 0 | SEQ ID NO:4215 SEQUENCE LENGTH:67 SEQUENCE TYPE:nucleic | .acid | | * | | |
| .`` | TOPOLOGY: linear | | | | | |
| | CLONE: HUMGS05008 | | • • | z. 4 \ | * | |
| | SEQUENCE DESCRIPTION: GATCTTGGTG GTAGTAGCTG | ጥ ርጥ አጥር አጥጥር | THECTCACCA | 14CT114AT1 | ******* | . 60 |
| 5 | ATGGAAA | ICIAIUAIIC | INUCTORUCA | MAUIMAMIA | MIUIIMMI | 67 |
| | | • | ** | · | | • |
| · · | SEQ ID NO:4216 | | | | | • |
| | SEQUENCE LENGTH: 143 | | | | | |
| o · . | SEQUENCE TYPE:nucleic | acid 🤔 | No. | · · | | |
| | TOPOLOGY:linear | | | | | |
| | CLONE: HUNGS05009 | • • | G . | | | |
| | SEQUENCE DESCRIPTION: | | | | | |
| 5 | GATCAAATGA AATAATGTAC | | | | | |
| • | NCCTGTTACA CAGTTGGAAG AAACTCACTG AAAGCANNGN | | AGATTTTGGG | CCTAGGAAGG | TAGGTGATTT | |
| • | AAACICACIG AAAGCANNGN | NNN | | | | 143 |
| | SEQ ID NO: 4217 | | | | | |
| o | SEQUENCE LENGTH: 362 | | | ٠. | | |
| | SEQUENCE TYPE: nucleic | acid | | | | |
| | TOPOLOGY: linear | | | | | |
| | CLONE: HUMGS05010 | | ÷ | | | |
| 5 | SEQUENCE DESCRIPTION: | | | | | |
| | GATCACAGCC ACTGGTCCAT | | | | | 60. |
| | CTCCATTGGA GGGAATTGTG | | | | | |
| | TTCCAGTCTA TCCTCCACAG | | | | | |
| . 1 189 ∩ | ATCTTCCTTA GTCACTTGCA | | | | | |
| | GTTCTTCAAC CTGCTTTCTG TAGAATGTCT ATTTTAGCTG | | | | | |
| | AA | GIACCUGIAC | IIIIIIIIIIIII | AAAGIICIII | IIIAAACIIA | 362 |
| • | , | | | | | 002 |
| 5 | SEQ ID NO:4218 | | | | | |
| | SEQUENCE LENGTH:213 | | | | | |
| | SEQUENCE TYPE:nucleic | acid | | | | |
| | TOPOLOGY: linear | | | | | |
| _ | CLONE: HUMGS05011 | | | | | |
| ס | SEQUENCE DESCRIPTION: | | | | | |
| | GATCTGNGAA GAGCACATAT | GTGTCAGGGC | ACAATTCCCN | CTCATAAAAA | CCACACAGCC | 60 |

| | TGGAAATTGG TTCTTAAATA CATGCCCNAG | TGTGGANTAT | GNTTATCCTT | AGCTGGAATA | | | |
|----|--|--------------------------------|--------------|---------------|-----------------|------------|-----|
| 5 | | | | | | | |
| 10 | SEQ ID NO: 4: SEQUENCE LEI SEQUENCE TYI TOPOLOGY: 1 in CLONE: HUMGSO | NGTH:169 PE:nucleic near | acid | | | , | |
| | SEQUENCE DE: | | | | | | |
| | GATCACTACA A | | | | | | 60 |
| | TNCTGTCCTT | | | | | CCCTTACCCC | 120 |
| 15 | CGGNTCTTCT (| CCTGACCTGC | CAATAAAAAT | TTATGGTCCA | AGGGAGAAA | | 169 |
| 20 | SEQ ID NO: 42 SEQUENCE LEM SEQUENCE TYM | NGTH: 235 | acid | | | | |
| | TOPOLOGY: lin CLONE: HUMGSO SEQUENCE DES | 05014 SCRIPTION: | 000 L00mg L0 | COTTO A NA CO | GG 4 NG 4 TG GG | T0000T00+0 | |
| 05 | GATCGCGCAG (| | | | | | 60 |
| | GAGGCTAGCG A | | | | | | |
| | CTAAGAGAGT (GAGCTTAAGT (| | | | | | |
| | UNGCIINAGI (| BAAGGCAGII | IIIAIGGGGI | IIIGIAGIAA | ALICIGIAAA | AIAAA | 235 |
| | SEQ ID NO: 42 SEQUENCE LEN SEQUENCE TYPE | NGTH: 196 | acid | | | | |
| | TOPOLOGY: lir | | | | | | |
| 35 | CLONE: HUMGSO | | | | | | |
| | SEQUENCE DES | | | | | | |
| | GATCAAAGTC (| | | | | | 60 |
| | CAAGGCGCTG G | | | | | | |
| | CAGCTGCGTC 1 | | CCAAGGGGTT | ICIGITICIA | TICTITICTIC | AGACTGCTCA | |
| 40 | AGAGAAGCAC A | AIGAAA | | | | | 196 |
| | SEQ ID NO: 42 SEQUENCE LEN | NGTH: 262 | | | | | |
| 45 | SEQUENCE TYPE TOPOLOGY: lin CLONE: HUMGSO SEQUENCE DES | near 05018 | acid | | | | |
| | GATCTGCACC A | AGACTGTTAC | CTTCTGGGGG | AGATGGAGAT | TTGACTGTTT | AAAAACTGAA | 60 |
| | AACAGCGAGG A | | | | | | 120 |
| | CGAAGTTTCT 1 | CAATGACCC | CTCGAGAACT | TTGGGACCAG | TTTCCTATGG | GGGACTCAGT | 180 |

| | TTCAGAGAAC TGAGACAGAA TATTAAATAT TTTCTGTGGA | | CGTTATATTC | TTCTTTCCTT | TTTTTGGATT | 240 262 |
|-----------|--|--------------------------|--------------------------|--|------------|------------|
| 5 | SEQ ID NO:4223 SEQUENCE LENGTH:277 SEQUENCE TYPE:nucleic | aaid | | • | | |
| 10 | TOPOLOGY: linear CLONE: HUMGS 05 019 SEQUENCE DESCRIPTION: | aciu | | | | |
| | GATCCTGCAG TGTCCTGTGG ACGTCTGGGA GAACCAGCTT | CACAACAGAT | ATAATAAGGA | AGAAGTTTGA | AATATTGCAA | 120 |
| 15 | | GGAGTTACCC | CGAACCTTCA | | | |
| | SEQ ID NO:4224 | | | | | |
| 20 | SEQUENCE LENGTH: 271 SEQUENCE TYPE: nucleic TOPOLOGY: linear | acid | | | | |
| 25 | CLONE: HUMGS05021 SEQUENCE DESCRIPTION: GATCGCGTCC ACCTTCATCG | CTGTGGTGCA | AGCCATCGTC | CGCACGGCTG | GTGGCTGGGC | 60 |
| | AGCTGCCTCG GACTCCAGGA CAAGGCTGAC AAGCAATCCA | AAGGCGGGGA GGGACAAGAT | GCCTGCCGGC ACTCACCAGG | GCT GCATAAACAG CCTGCAGGGA 60 GGA AGAAGTTTGA AATATTGCAA 120 FACA TGCTCGTGGG AAAATGTTGC 180 TCA ATTTGTTTAA AAAAAAAAAA 240 277 GGC CGCACGGCTG GTGGCTGGGC 60 FACA ACCAGGAAGG GGACTCTGGG 180 FAAA TNAGGCCACT GTGCCAGGNT 240 271 ACTT TCACGCCAGA NGGCAGTCGT 60 FACAG GANTACTATC TCCAACTNTC 120 138 | 120 180 | |
| 30 | GGACCGGCTT CCCCTGTNAG CCAGGTGGCC TNCCTGGNCT | | | TNAGGCCACT | GTGCCAGGNT | |
| | SEQ ID NO:4225 SEQUENCE LENGTH:138 | | | | | |
| 35 | SEQUENCE TYPE:nucleic TOPOLOGY:linear CLONE:HUMGS05023 | acid | | | | |
| 40 | | | | | | |
| 45 | SEQ ID NO:4226 SEQUENCE LENGTH:64 | | | | | |
| • | SEQUENCE TYPE:nucleic TOPOLOGY:linear CLONE:HUMGS05024 | acid | | | | |
| 50 | SEQUENCE DESCRIPTION: | GTCTTTGTTT | TATATGATTA | AATGGTTTGT | TTTCATAGAT | 60 64 |

| | SEQ ID NO:4227 | | | | | |
|----|----------------------|---------------|------------|----------------|------------|-----|
| | SEQUENCE LENGTH: 296 | | | | | |
| _ | SEQUENCE TYPE:nucle: | ic acid | | | | |
| 5 | TOPOLOGY:linear | | | | | |
| | CLONE: HUMGS05025 | | | | | |
| | SEQUENCE DESCRIPTION | 1: | | | | |
| | GATCCCGGCT GTTGGTGA | GC AAAGAGCCCA | GGCCCCTAGA | GTGCGCATGT | NCAGGCTCCG | 60 |
| 10 | CTGTTAGANT CACAGCGG | TT CAAATCCGGC | ATCTGGTCGC | TGAGTGGCCT | CAGGCAGTGA | 120 |
| | CCACGCTCCC GGACCCAAC | | | | | |
| | TTGGNTGGGG ATGGTGGC | C ACGCTTGTAA | ATCCCAGTAC | TTTGGGAGGC | CAAGGCAGTC | 240 |
| | TGGGCAATAT AGTGAGGC | C CCATCTGTAC | TAAAAATAAA | AAAGTTAGGC | GTGAAA | 296 |
| 15 | SEQ ID NO:4228 | | | | | |
| | SEQUENCE LENGTH: 135 | | | | | |
| | SEQUENCE TYPE:nuclei | ic acid | | | | |
| | TOPOLOGY: linear | .0 0010 | | | | |
| 20 | CLONE: HUMGS05026 | | | | | |
| | SEQUENCE DESCRIPTION | l: | | | | |
| | GATCAGACCT CTCATGCTC | T GGAGATGAAA | AAGCCCTAAA | GTTTATGTTT | CTAATGTGTC | 60 |
| | ACAGAATAGG ACGATATGA | T TCTACAACAT | AATCAACTCC | CTATTAAATT | CTTTAATGAA | 120 |
| | GATTTTTTT TTAAA | | | | | 135 |
| 25 | | | • | | | |
| | SEQ ID NO: 4229 | | | | | |
| | SEQUENCE LENGTH: 337 | | | | | |
| | SEQUENCE TYPE:nuclei | c acid | | | | |
| 30 | TOPOLOGY: linear | | | | | |
| | CLONE: HUMGS05027 | | | | | |
| | SEQUENCE DESCRIPTION | l: | | | | |
| | GATCCTCTTT CTAGCATGA | A TGAAGGATGC | CAAGAATGAG | AAAAAGCAAG | GGGTTTGTCC | 60 |
| 35 | AGGTGGCCCC TGAATTCTC | | | | - | |
| | GCACTTGTAA CTTTGAACO | G TCTGTCTGGA | GGTCAGAGCC | TGTTGGAAAG | CAGGGGTAGA | 180 |
| | GGGGAGCCCT GGAAGCAG | | | | | |
| | TCACCACTCT TCCCCTTG | | | GGATACTATT | TTTNATTAAA | |
| 40 | TATATTATTA TATGTTAAT | TA AAAAANTCAT | ATCCAAA | | | 337 |
| 40 | and the way | | | | | |
| • | SEQ ID NO:4230 | | | | | |
| | SEQUENCE LENGTH: 179 | , | | • | | |
| | SEQUENCE TYPE:nuclei | c acid | | | | |
| 45 | TOPOLOGY:linear | | | | | |
| | CLONE: HUMGS05028 | • | | | | |
| | SEQUENCE DESCRIPTION | | 0000110010 | 1TCCTC11CC | 107701010P | 60 |
| | GATCCTTCGC GAGCGAGT | | | | | |
| 50 | GCTGTGCCGG GGTCTCCAT | | | | | |
| | CCATCCACCC CTTCTCTT | A IUUIIUUUIA | NDAKKUUUII | A I VVV/C I AR | HOOP THANK | 112 |

| | SEQ ID NO:4231 | | | | | |
|----|------------------------|------------|------------|---|-----------------------------------|-----|
| | SEQUENCE LENGTH: 207 | | | | | |
| | SEQUENCE TYPE: nucleio | cacid | | | | |
| 5 | TOPOLOGY: linear | | | | | |
| | CLONE: HUNGS05029 | | | | | |
| | SEQUENCE DESCRIPTION | | | | | |
| | GATCGCTGGA CGCTATGAGA | | GGGCCCAGCC | TCCCACAGCC | GTTTCAGCAG | 60 |
| 10 | GGACAGGGC TGAACAGGC | | | | | |
| 10 | AGCAGTCCCA GCTCTGGTT | | | | | |
| | AATAAGGGC ATGAGCCCTT | | IIMIIOIOII | nomitamini | ddiioconin | 207 |
| | minimoddd midnaeddi | COTOMIN | | | | 201 |
| | SEQ ID NO:4232 | | | | | |
| 15 | SEQUENCE LENGTH: 386 | | | | | |
| | SEQUENCE TYPE:nucleio | acid | | | | |
| | TOPOLOGY: linear | . acru | | | | |
| | CLONE: HUMGS05030 | | | | | |
| 20 | SEQUENCE DESCRIPTION: | | | | | |
| | GATCTGAAAT AGTTTTCTTC | | TTGAAATCAA | TGAAGCAATT | Δ C T T T C T C A T | 60 |
| | TCAGAAATGT GCACACTAAT | | | | | |
| | TCTGCAGTTT CCTGGAAGTT | | | | | |
| | CCCAAAAATA TGTATGTGTG | | | | | |
| 25 | CTCTTGCGGT GCTCATGAT(| | | • | | |
| | GGTTTTCTTC TATAGCCATT | | | | | |
| | ATTTGTAAAT NGCTACTTTO | | AUTUTATIAU | IIMIUMUMI | ALITATI TRINGT | 386 |
| | MITTOTAL MOUTAGETT | I IAIII | | | | 000 |
| 30 | SEQ ID NO:4233 | | | | | |
| | SEQUENCE LENGTH: 356 | | | | | |
| | SEQUENCE TYPE:nucleio | acid | | | | |
| | TOPOLOGY: linear | | | | | |
| 35 | CLONE: HUMGS05031 | | | | | |
| 35 | SEQUENCE DESCRIPTION: | | | | | |
| | GATCTTCANA TTGCTGTGAT | TAATGCATCC | AGATTNTTTT | CCTAGTATTT | CCAGGTTAGA | 60 |
| | ACCTGTGGAT TGTTTCANT | | | | | 120 |
| | TGTTTACAGA AGACTCACTO | ACCAGGATAA | ACATTGCNGT | ATGTNACAGT | AAAGCTATCT | 180 |
| 40 | GGAGAGANCA CATAAATGAT | | | | | |
| | GNCCACATAA NGCTTATCAC | GGGGTCTAGA | TTGGTNTTGT | NNTATACCAT | ATGGGATGAN | 300 |
| | GNAAANTAGA AATGTCAGTA | GAACTCATTG | AGGGTGCTCT | NGCCAGCTGC | NGANAN | 356 |
| | | | | | | |
| 45 | SEQ ID NO:4234 | | | | | |
| | SEQUENCE LENGTH: 105 | | | | | |
| | SEQUENCE TYPE:nucleio | acid | | | | |
| | TOPOLOGY:linear | | | | | |
| | CLONE: HUMGS05033 | | | | | |
| 50 | SECUENCE DESCRIPTION | | | | | |

| | GATCTGCTTT TTTNAAATGT CATAGCTCCC CCTCATTCCC | _ | | | GAAGAAAGAA | 60 105 |
|----|--|------------|------------|------------|------------|-----------|
| 5 | SEQ ID NO:4235 | | • | | | |
| 3 | SEQUENCE LENGTH: 343 | | | | | |
| | SEQUENCE TYPE:nucleic | acid | | | | |
| | TOPOLOGY: linear | acru | | | | |
| | CLONE: HUMGS05034 | | | | | |
| 10 | SEQUENCE DESCRIPTION: | | | | | |
| | GATCAGGGCC TTCCTGCCTC | CCGCTGGGCA | GGTCTGGCCT | TGCNCTCTTG | GCAGGGCCCC | 60 |
| | AGCCCCTCTA ACCACTCTGC | | | | | |
| | GTGCAGCAGC CCTGGGAGCC | | | | | |
| 15 | GNTTCACCTG GCCCCACCAT | | | | | |
| | AGAGCTTGAG CTGTTGCTCT | | | | | |
| | TNGCTCCTAA GTGTTGCTGC | | | | | 343 |
| | | | | 20 | | |
| 20 | SEQ ID NO:4236 | | | | | |
| 20 | SEQUENCE LENGTH: 370 | | | | | |
| | SEQUENCE TYPE:nucleic | acid | | | | |
| | TOPOLOGY:linear | | | | | |
| | CLONE: HUMGS05035 | | | | | |
| 25 | SEQUENCE DESCRIPTION: | | | | | |
| | GATCATTTCA AAACTCATTT | CCTATGTAAC | TGCATTGAGA | ACTGCATATG | ATTCGCTGAT | 60 |
| | ATATGTGTTT TTCACATTTG | CGAATGGTTC | CATTCTCTCT | CCTGTACTTT | TTCCAGACAC | 120 |
| | TTTTTTGAGT GGATGATGTT | TCGTGAAGTA | TACTGTATTT | TNACCTTNTT | CCTTCCTTAT | 180 |
| 30 | CACTGACACA AAAAGTAGAT | TAAGAGATGG | GTTTGACAAG | GTTCTTCCCT | TTTACATACT | 240 |
| | GCTGTCTATG TGGCTGTATC | TNGTTNTTCC | ACTACTGNTA | CCACANCTAT | ATTATCATGC | 300 |
| | AAATGCTGTA TTCTTCTGTT | GGGTGGAGAN | AAAGGATTTC | TTGNAGGTTT | NGTTTTTAAA | 360 |
| | ATTNAAAGCN | | | | | 370 |
| 35 | | | | | | |
| 55 | SEQ ID NO:4237 | | | | | |
| | SEQUENCE LENGTH: 529 | | | | | |
| | SEQUENCE TYPE: nucleic | acid | | | | |
| | TOPOLOGY:linear | | | | | |
| 40 | CLONE: HUMGS05037 | | | • | | |
| | SEQUENCE DESCRIPTION: | | | | | |
| | GATCTGTTTC GTGCATTGGA | | | | | 60 |
| | GGGGCTCCCT TCATCTCCAG | | | | | |
| 45 | GCCCCTACCC CACACCAGGC | | | | | |
| | GGGCCCCTCT GCCCAGCTTG | | | | | |
| | GGGCCCGTTG AGGATGAGGC | | | | | |
| | ACAAAACCCA CCTTGTTGGA | | | | | |
| 50 | CAATGTATTG GCCTGGAAGG | | | | | |
| 50 | TTTNNANGNT GACCTTTNTT | | | | AGNCCCAAGT | |
| | TTGANANTGG GAAATAAANT | TTTTTTGGGC | CTCCGGNTTT | CCCTTNAAA | | 529 |

| | SEQ ID NO:4238 | | | | | |
|----|-----------------------|------------|------------|------------|------------|-----|
| | SEQUENCE LENGTH: 365 | | | | | |
| | SEQUENCE TYPE:nucleic | acid | | | | |
| 5 | TOPOLOGY: linear | | | | | |
| | CLONE: HUMGS 05039 | | | | | |
| | SEQUENCE DESCRIPTION: | | | | | |
| | GATCGTTTTC TGATTTGTAT | GCTTCACAAA | CTTGGATTTG | ACAAAGAAAA | TGTTTATGNN | 60 |
| | NGAATTGCGA CAGTGTATTC | GCAACTNTCC | TCAGTTCAGA | TTTGACTGGT | TTCTTAAGTC | 120 |
| 10 | CAGAACTGCA ATGGAGCTCC | AGNGGAGATG | TAATACCTTA | ATTNCTTTGA | TTGAAAGAGA | 180 |
| | AAACATGGAA CTAGAAGAAA | AGGAGAAGGC | AGAGAAAAAG | AAACGAGGAC | CAAAGCCTTC | 240 |
| | ANCACAGAAA CGTAAAATGG | ATGGCGCACC | TGATGGTCGA | GGTAGAAAA | NGTGGCTGGA | 300 |
| | ANCTATGNNT ATGGTTTTNT | TTCATAAATC | ACTNAGCTTT | ANACCNAGTA | GTTCCTNTNA | 360 |
| 15 | NTTTN | | | | | 365 |
| | | | | | • | |
| | SEQ ID NO:4239 | | • | | | |
| | SEQUENCE LENGTH: 114 | | | | | |
| | SEQUENCE TYPE:nucleic | acid | | | | |
| 20 | TOPOLOGY:linear | | | | | |
| | CLONE: HUMGS05040 | | | | | |
| | SEQUENCE DESCRIPTION: | | | | | |
| | GATCATTACA ACANTTGTNT | GCCTCCAAGT | CCTTGAGGCA | GCAAGTCTGG | GGCTTCTGTN | 60 |
| 25 | TCNTTTGAGG GTGTCTTCTG | | | | | 114 |
| | | darnanaoan | radannadan | dunocorino | COM | 114 |
| | SEQ ID NO:4240 | | | | | |
| | SEQUENCE LENGTH: 312 | | | | | |
| 00 | SEQUENCE TYPE:nucleic | acid | | | | |
| 30 | TOPOLOGY: linear | acru | | | | |
| | CLONE: HUMGS05041 | | | | | |
| | SEQUENCE DESCRIPTION: | | | | | |
| | GATCATCCGC GGCGGCCGGG | CTCGTGGGGC | CCCTCCACTC | ACCOTTOTO | TTCCCCCCCC | 60 |
| 35 | CGAGGATTGT TAAAATNAGT | | | | | |
| | TCGGACGACC AGTTGTGGTA | | | | | |
| | | | | | | |
| | GCCTGGATGG CTACATGAAT | | | - | | |
| 40 | TGAAGAATAA GTATGGGGAT | GCATTTATCC | GAGGAAACAA | IGIGITGIAC | ATCAGTACAC | |
| 40 | AGNAGAGACG GN | | | | | 312 |
| | 0E0 ID NO 4044 | | | | | |
| | SEQ ID NO: 4241 | | | | | |
| | SEQUENCE LENGTH: 306 | | | | | |
| 45 | SEQUENCE TYPE:nucleic | acid | | | | |
| | TOPOLOGY: linear | | | | | |
| | CLONE: HUMGS05042 | | | | | |
| | SEQUENCE DESCRIPTION: | | | | | |
| 50 | GATCGGAGTA CANAGTNACA | | | | | 60 |
| 50 | TGGGAAGGAG GCAGTGGCAG | AGGGGTGAGG | GACAGGGGCC | CTTAAGTCCA | GCGAGGAAAG | 120 |

| | CTCGGTGTGG GCCCGTCTAC | GCTCCGTTTG | GGGTGACCTG | GAACGCCTCT | TCTACAGCTC | 180 |
|----|------------------------|-------------|------------|------------|------------|-----|
| | CTNCAGCATC AGCAGCCTCT | ·TGTCAAGTTT | TGCCTCGCCC | ANTCTATCCC | AACCCAAATA | 240 |
| | AGACACTTTC TTCACGNCAT | ATTATCTTTG | TCCTTTCTTT | TTTAAGAACA | TCACAAAACC | 300 |
| 5 | ATGAAA | | | | | 306 |
| | | | | | | |
| | SEQ ID NO:4242 | | | | | |
| | SEQUENCE LENGTH: 287 | | | | | |
| 10 | SEQUENCE TYPE:nucleic | acid | | | | |
| | TOPOLOGY:linear | | | | | |
| | CLONE: HUMGS05043 | | | | | |
| | SEQUENCE DESCRIPTION: | | | | | |
| 45 | GATCTTAAAC CCAGTCTTGA | CAGACTAGAA | GTTAAGTTTA | ATACAGAAAA | TGTCCTGTTC | 60 |
| 15 | ACTTGAAAGA AAAGACCTAC | TTTTTAAATG | GACACTATCT | TGGTTCTTTT | TTTTTAAGTC | 120 |
| | ATCTTTTGT TATAAGTGAC | CTTTGTCTGG | AATGTCTGAA | AAGTAGTTAA | TGCTTTTNGG | 180 |
| | TATTGAAGTA ATGGGTAACT | | | | AGGAGCCTCT | 240 |
| | ACAATATTGA CTATATATNN | NNATAAACTA | CTGGCAAGGN | ACTTAAA | • | 287 |
| 20 | • | | | | - | |
| | SEQ ID NO:4243 | | | | | |
| | SEQUENCE LENGTH: 324 | | | | | |
| | SEQUENCE TYPE:nucleic | acid | | | | |
| 25 | TOPOLOGY: linear | | | | | |
| 25 | CLONE: HUMGS05044 | | | | | |
| | SEQUENCE DESCRIPTION: | | | | | |
| | GATCTCCACT GTTGGGTGGG | TGGGCCCTGC | CGGGACCCTG | CTTCACAGGC | AGGCTTTTCC | 60 |
| | TCCAACCTGT GGCGCTGCAG | CAGGGCAGGA | AGGGGAAACA | CAGCTGATGA | ACTGTGGTGC | 120 |
| 30 | CACATGACCC TTGTGGCACA | GATGCCCACG | TATGTGAAAC | ACACATGGAC | ATGTGTCCCA | 180 |
| | GCCACAGTGT TATGCTCTGT | GGCNGGCTCA | CCTTTGCTGA | GTTCCGGGGT | GCAATGGGGG | 240 |
| | AGGGAGGGAG GGAAAGCTTC | CTCCTAAATC | AAGCATCTTT | CTGTTACTTG | ATGTTCAATA | 300 |
| | AAAGAATAGT TGGCAAGGCT | GAAA | | | | 324 |
| 35 | | | | | | |
| | SEQ ID NO:4244 | | | | | |
| • | SEQUENCE LENGTH: 65 | | | | | |
| | SEQUENCE TYPE: nucleic | acid | | | | |
| | TOPOLOGY:linear | | | | | |
| 40 | CLONE: HUMGS 05045 | | | | | |
| | SEQUENCE DESCRIPTION: | | | | | |
| | GATCATTCAT ATGTGTACAT | AAAATTTTAA | AAATAAAGGG | AATTGACTGC | TTTGTTAATG | 60 |
| | AGAAA | | | | | 65 |
| 45 | | | | | | |
| | SEQ ID NO:4245 | | | | | |
| | SEQUENCE LENGTH: 288 | | | | | |
| | SEQUENCE TYPE:nucleic | acid | | | | |
| 50 | TOPOLOGY:linear | | | | | |
| 50 | CLONE: HUMGS05046 | | | | | |
| | SEQUENCE DESCRIPTION: | | | | | |

| | GATCCAGAGA ATGAATCCCT | GACCGCATCA | CCTAAACTGT | CTTCCAAACA | TGAGACAAAG | 60 |
|----|---------------------------------------|--|------------|---------------|------------|-----|
| | CTGACTGTTC ACACTGATTG | CCCAGCACAT | ACCGTCTTGC | CAGTTTCTTC | TTTTCTCCCA | 120 |
| | GTCTCCTGTT CATCCATTCT | GTTCTCCCTT | GGGGTGGGAA | TCTATGATGG | AGGTTACTGG | 180 |
| 5 | GGAAACAGCT CAGCAGATTT | TTGGAGACCA | AACCAAAGGT | CTCACTAGGA | AATTTATCTG | 240 |
| | TTTTAAAACA TTGCTTCCTT | CCTGGCTCTG | CTAAATTGAA | TGCTCATN | | 288 |
| | SEQ ID NO: 4246 | | | | | |
| 10 | SEQUENCE LENGTH: 333 | | | | | |
| | SEQUENCE TYPE: nucleic | acid | | | | |
| | TOPOLOGY:linear | | | | | |
| | CLONE: HUMGS05047 | | | | | |
| | SEQUENCE DESCRIPTION: | | | | | |
| 15 | GATCTCTGCT CCTAACGATG | AAGACTGGGC | CTATTCACAG | CAGCTCTCTG | CCCTCAGTGG | 60 |
| | TCAGGCGTGC AATTTTGGTC | CION: CGATG AAGACTGGGC CTATTCACAG CAGCTCTCTG CCCTCAGTGG 60 CGGTC TGCGCCACAT AACCATTCTG AAGCTTTTAG GCGTTGGAGA 120 CTTAG AACTGTTCCC AATTAATGGG AGCTCTGTTG TTGAGCGAGA 180 CTTGG TGAAAGACAT TCGTAACTAT TTTCAAGTGA GCCCGGAGTA 240 AGTCG GAAAAGACGG AAATGTCAAA TCCTGGTATC CTTCCCCAAT 300 CGTGT ACGATTTAAT TGN 333 CSSS CSCAGG GGACCAATTC TGGACAGACA GATGTTGGGA GGATACAGAG 60 ACTCA CCACTACCAG CCAGCCTCAG AAGGCCCCAG AGAGACCCTG 120 ACGNT GACCATGCGT CAGGGGNCTA GAGGTGGAGT TCTTAGCTAT 240 ACGNT GACCATGCGT CAGGGGNCTA GAGGTGGAGT TCTTAGCTAT 240 ACCAG CTGGNTCTGN CCNCTCCCNC CATGGGGN 288 LTO CLACA CAGGCTGCAG ACTTCTGGGG GAATTGTCGC CTCCTGCTCT 120 CLACA CAGGCTGCAG ACTTCTGGGG GAATTGTCGC CTCCTGCTCT 120 CACAG GGGCTCTGAA CTGCAGCTGA TGTTATCAGC AGGCCATGCA 60 CGGAC ACGGCTGCAG ACTTCTGGGG GAATTGTCGC CTCCTGCTCT 120 CGATAA GGTTGTTCAA TAAAGACTTT TATCCCCAAA 170 | | | | |
| | GGAAGTTGGG GGAGTGTTAG | AACTGTTCCC | AATTAATGGG | AGCTCTGTTG | TTGAGCGAGA | 180 |
| | AGACGTACCA GCCCATTTGG | TGAAAGACAT | TCGTAACTAT | TTTCAAGTGA | GCCCGGAGTA | 240 |
| 20 | CTTCTCCATG CTTCTAGTCG | GAAAAGACGG | AAATGTCAAA | TCCTGGTATC | CTTCCCCAAT | 300 |
| | GTGGTCCATG GTGATTGTGT | ACGATTTAAT | TGN | | | 333 |
| | CPO ID NO. 4047 | | | | | |
| | SEQ ID NO: 4247 | | | | | |
| 25 | SEQUENCE LENGTH: 288 | | | | • | |
| | SEQUENCE TYPE:nucleic TOPOLOGY:linear | acia | | | | |
| | CLONE: HUMGS05051 | | | | | |
| | SEQUENCE DESCRIPTION: | | | | | |
| 30 | | CCACCAATTC | TCCACACACA | C & TCTTCCC & | CCATACACAC | en. |
| 30 | | | | | | |
| | • | | | | | |
| | _ | | | | | |
| | | | | | ICIIAGCIAI | |
| 35 | MCTTGGCTTT MAGAGCCAGC | CIGGRICIGN | CCNCICCCAC | CAIGGGGA | | 200 |
| | SEQ ID NO:4248 | | | | | |
| | SEQUENCE LENGTH: 170 | | | | | |
| | SEQUENCE TYPE:nucleic | acid | | | | |
| 40 | TOPOLOGY:linear | | | | | |
| | CLONE: HUMGS05052 | | | | | |
| | SEQUENCE DESCRIPTION: | | | | | |
| | GATCTCTAAG TGACCACCAG | GGGCTCTGAA | CTGCAGCTGA | TGTTATCAGC | AGGCCATGCA | 60 |
| 45 | TCCTGCTGCC AAGGGTGGAC | ACGGCTGCAG | ACTTCTGGGG | GAATTGTCGC | CTCCTGCTCT | 120 |
| | TTTGTTACTG AGTGAGATAA | GGTTGTTCAA | TAAAGACTTT | TATCCCCAAA | | 170 |
| | SEQ ID NO:4249 | | | | | |
| | SEQUENCE LENGTH: 136 | | | | | |
| 50 | SEQUENCE TYPE:nucleic | acid | | | | |
| | TOPOLOGY: linear | 2014 | | | | • |
| | | | | | | |

CLONE: HUMGS05053

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| | SEQUENCE DE | SCRIPTION: | | . • | | • | |
|---------|---------------|------------|------------|------------|------------|------------|-----|
| | GATCTACATA | GATTTGGAAA | CTGTTTTCCT | CTGTTTTGGT | CTCTTGGGCA | ACATTTTTGG | 60 |
| 5 | CCCAAGTTTG | GGCAACATTT | GGCCCAAGNT | TGGGCATTTT | GGCAGTAGCT | GTATGGNAGA | 120 |
| | AAAAGAGTAA | GAGGAN | | | | | 136 |
| | SEQ ID NO:4 | 250 | • | | | | |
| 0 | SEQUENCE LE | | | | | | |
| | SEQUENCE TY | PE:nucleic | acid | | | | |
| | TOPOLOGY: 1 i | near | | | | | |
| *. * | CLONE: HUNGS | 05054 | | | | | |
| 15 | SEQUENCE DE | SCRIPTION: | | | | | |
| | GATCNTTTGC | TTTAGNGTGT | AAAGTNTGTC | TCTGAACAGA | ATTATTTGTA | AAAGTTAGGA | 60 |
| | GTTCTTTTTT | AAATCATTAA | AAGAGGCTTG | NTGAAGGAAA | | | 100 |
| i e | SEQ ID NO:4 | 251 | | | | | |
| 20 | SEQUENCE LE | NGTH: 204 | | | | | |
| | SEQUENCE TY | PE:nucleic | acid | | | | |
| 4. | TOPOLOGY: 1 i | near | | | | | |
| - | CLONE: HUMGS | 05055 | | • | | | |
| 25 | SEQUENCE DE | SCRIPTION: | | | | _ A_ • | |
| :5 | GATCCTAGAG | CCCTTCACTT | CGGNTTACTC | CCTCTTTTTT | GCCTCTNTTT | NTTAGTTGGA | 60 |
| | AGAAATAAAC | TCACAAATTA | TGGTGCAGTA | ATTTNCCGGG | GAAAGTAAAG | CCTCAGGAAT | 120 |
| | GCCCACGCCT | TTTTTCCAAA | GCCTTTNTCT | CTGAGACCTC | TTAAGTTCTA | AGATTAAATG | 180 |
| | CCCCTCGCTG | TTTCTCCTCT | GAAA | | | | 204 |
| 80 | | | | | | | |
| | SEQ ID NO:4 | 252 | | | | | |
| | SEQUENCE LE | NGTH:310 | | | | | |
| | SEQUENCE TY | PE:nucleic | acid | | | | |
| 35 | TOPOLOGY: 1 i | near | | | | | |
| | CLONE: HUMGS | 05056 | | | | | |
| | SEQUENCE DE | SCRIPTION: | | | | | |
| | GATCAAGGAG | CAATTATGAA | GGTCTACAAG | CAAGANCAAG | AGGAAGAATT | ATNGAAAAAG | 60 |
| | TTGGCAAATG | NCCCCAGATG | GAAGAGATAC | AGGAGATGGA | TGAAGAATGA | AGGGCCTGGG | 120 |
| 10 | CGGTTAACAT | TTGTGGATGA | CTGANGATTG | ATGGAATGCT | ACTATGCCAA | ACCTTAATTG | 180 |
| | TGATATTATT | TTCATAACTG | ANTTATTTA | GAAATGTATC | ANTNGACTGC | TGCTCAGCAG | 240 |
| | TAACTAAAAT | TCCTCAAGTA | TTTGATTAAA | CAGATTAATG | TCAAANTTTA | AACCTTCCCT | 300 |
| | TAAAACTTTN | | | | | | 310 |
| 15 | | | | | | | |
| | SEQ ID NO:4 | 253 | | | | | |
| | SEQUENCE LE | NGTH: 267 | | • | | | |
| | SEQUENCE TY | PE:nucleic | acid | | | | |
| | TOPOLOGY: 1i | near | | | | | |
| i0 | CLONE: HUMGS | 05058 | | | | | |
| | SEQUENCE DE | SCRIPTION: | | | | | |
| | | | | | | | |

| | GATCTAATTG CATTGGTTAA | AAGCAGCTAA | CCAGGTCTTT | AGAATATGCT | CTAGCCAAGT | 60 |
|----|------------------------|------------|------------|------------|------------|-----|
| | CTAACTTTAT TTAGACGCTG | TAGATGGACA | AGCTTGATTG | TTGGAACCAA | AATGGGAACA | 120 |
| | TTAAACAAAC ATCACAGCCC | TCACTAATAA | CATTGCTGTC | AAGTGTAGAT | TCCCCCCTTC | 180 |
| 5 | AAAAAAAGCT TGTGACCATT | TTGTATGGCT | TGTCTGGAAA | CTTCTGTAAA | TCTTATGTTT | 240 |
| | TAGTAAAATA TTTTTTGTTA | TTCTAAA | | | • | 267 |
| | SEQ ID NO:4254 | | | | | |
| 10 | SEQUENCE LENGTH: 307 | | | | | |
| | SEQUENCE TYPE:nucleic | acid | | | | |
| | TOPOLOGY:linear | | | | | |
| | CLONE: HUMGS05059 | | | | • | |
| | SEQUENCE DESCRIPTION: | | | | | |
| 15 | GATCANAACT CAAACGGGCC | GGNNTTTCTA | AGGTGTNGGT | ATGTGGGGAG | TGGTACAAAA | 60 |
| | TGGTCTGATG CTCCTTCAAA | AACATTCACT | TTTTACAACG | TCAAGGAATT | AAGCATAAAA | 120 |
| | AAGATTGGTT AAAAGCTTTG | GTTTCTAGTA | AAGGTTAGTG | TGTGTGGTTT | TTTTAAGAAG | 180 |
| | CTGTNTTGCT AAATNATTTT | TACTTGGAAT | GTTTCAAACA | GATTTCAGGC | TGCAAACTTG | 240 |
| 20 | TTTNATAATC GTNNGCTTCT | CCAAGTGAAG | CTTCAGGAAT | ACCTGGAAAA | TAGCTGTAAC | 300 |
| | GTTCGCN | | | | | 307 |
| | SEQ ID NO:4255 | | | | | |
| | SEQUENCE LENGTH: 297 | | | | | |
| 25 | SEQUENCE TYPE: nucleic | acid | | | • | |
| | TOPOLOGY: linear | | | | | |
| | CLONE: HUMGS05060 | | | | | |
| | SEQUENCE DESCRIPTION: | | | | | |
| 30 | GATCTAATAA AAATTGAAAT | ATGCCTTTTA | GAATGGCTTT | CAAAGATAAC | AAATGCTGGA | 60 |
| | GAGGATGTAG AACAACTGGA | ACCTCTCGGT | TATTGCTGGT | GAGACAGCCG | CTTTGAAAAA | 120 |
| | GTTTGAGTTT CTTACAAAAT | TAAACTTACA | CTTACACTTA | CCATATGACC | CAAAAATTCC | 180 |
| | ACTGCTTGCT CTTTACTCAA | GTATAAGGAA | AATCTATGTA | CACACAAAAC | TNGTACGTGA | 240 |
| 35 | ATATTTATTA ATAGTCATTT | TATGCCCCAA | ACTAGNAATA | GTCCAAATGT | TCTGGGN | 297 |
| | SEQ ID NO:4256 | | | • | | |
| | SEQUENCE LENGTH: 208 | | | | | |
| | SEQUENCE TYPE:nucleic | acid | | | | |
| 40 | TOPOLOGY: linear | | | | • | |
| | CLONE: HUMGS05061 | | | | • | |
| | SEQUENCE DESCRIPTION: | | | | | |
| | GATCINIATI NITTINGCAA | CAGACTTCAA | GTGGTCCCTC | TTTTTTCCCT | ACACACTCAG | 60 |
| 45 | CTCTTCTCTA AAAGCAAGGA | | | | | |
| •• | AAATGGCATC TGTAATTGAN | | | | | |
| | ATTAATAAAA TANTGTTTCA | | | | | 208 |
| | SEQ ID NO:4257 | | | | | |
| 50 | SEQUENCE LENGTH: 208 | | | | | |
| | SEQUENCE TYPE: pucleic | acid | | | | • |

| 5 | TOPOLOGY: lin CLONE: HUMGSO SEQUENCE DES GATCACAGGA A ATGTAAATAT T AGATTGATTT A AAAAAAATAA A | D5062 SCRIPTION: AGACTTTGTA CCCAAAGCAG ACTGCTTAAA | GNTGCCTTGT ATCACTTTAC | GGTTTTGGCC | AGCCTTGTGC | TATGTTGATA | |
|----|--|---|--------------------------|--------------------------|--------------------------|--------------------------|------------|
| 10 | SEQ ID NO:42 SEQUENCE LEN SEQUENCE TYP TOPOLOGY:lin CLONE:HUMGSO | NGTH:126 PE:nucleic near | acid | | | | |
| 15 | SEQUENCE DES GATCAGTTTT C ATTTCTGTAT T TGTAAA | SCRIPTION: | | | | | |
| 20 | | | | | | | |
| 25 | SEQ ID NO:42 SEQUENCE LEN SEQUENCE TYP TOPOLOGY:lin CLONE:HUMGSO | GTH:552 PE:nucleic near | acid | | | | |
| | SEQUENCE DES | SCRIPTION: | TTCAGACACT | CTGAGCCCCA | GANGCAGCAA | AGGGTGAGCC | 60 |
| 30 | TCCTGCCTTG GCTGCGGTTGA CGCGCATGCCC T | CTACACCTT | CCTCCCCTGA | GACATCAGCT | GGCATGCCTC | CAAGCCCTCT | 180 |
| | TGGGGAATCT N | TGTGCATGT GCTGAGCTGG | CCACAGCCCC CTGACCGACC | TGGTTATGCT CAATCCCNCT | CTCACAGCCA AACCGGCCTC | CTGCCCCTNT TGCCCGNTGA | 300 360 |
| 35 | NCCGGTGGTT G CAATTGCTTG G AAGGGGNTNN G GTTTNGNAAA A | CNGGACCCCA GAATTTCCGG | AGGGGNCGGN | TNGCCAATGG | GGGTGNACTT | TGCCGGGCCA | 480 |
| 40 | SEQ ID NO:42 | 260 | | | | | |
| | SEQUENCE LEN | | | | | | |
| | SEQUENCE TYP | | acid | | | | |
| | TOPOLOGY: lin | | | | | | |
| 45 | CLONE: HUMGSO SEQUENCE DES | | | | | | |
| | GATCAGACCT 1 | | TTCTGGCCAG | AGCTTGTCAC | CAGCCCCATG | GCCTCTCCAG | 60 |
| • | GCGTGCTCAT (| | | | | | |
| 50 | CCTCCTGGGA A | ATCTGTCATT | CGTGGGTGCT | TCAGAGTAAA | ATCAATGAGT | TTCTGAGAAA | 180 |

| 5 | SEQ ID NO:4261 SEQUENCE LENGTH:553 SEQUENCE TYPE:nucleic TOPOLOGY:linear CLONE:HUMGS05066 | acid | | | | |
|----|---|--|--|--|--|-------------------|
| 10 | SEQUENCE DESCRIPTION: GATCAGCGTG CGGGGTGTGA GAATAAATGT AGCCACTTTT GAACAACAAG TACTTTGGGT CGTCTTTGTG TCTGAAGACT | TCCAGTTAAA TCATCACCAA | AAACATCTCT GCACCCCGCC | TTCTGCGGAT GACCACCGGT | ATCATCCAAA TTGCCTGCCA | 120 180 |
| 15 | GCAGTTCTAC AAGCAGTTTG GCTGTGCAGC CCCGNCCTTC CAAGCTTGGC TTGCTGGACA GNCCAACCGG CCANNNGGGN TAGGGGGAAG GGGTTGGGGG | TTGGGGTCCC AGGGATGTTG CAAAGGGAAA | CCCAGCCCCT GCAACTTGNT GTTNGGGGGG | NAGGGCCAAG TTNAGGGAGG NCCCGTTTGG | TTGCCAGGGA GGGGCAACTT NCCAANGGGT | 360 420 480 |
| | TTAATTTTTT AAA | | | | | 553 |
| 25 | SEQ ID NO:4262 SEQUENCE LENGTH:314 SEQUENCE TYPE:nucleic TOPOLOGY:linear CLONE:HUMGS05068 | acid | | | | |
| 30 | SEQUENCE DESCRIPTION: GATCTCCCGG ACCCCTGAGG GGTCAAGTTC AACTGGTACG GGAGGAGCAG TACAACAGCA | TGGACGGCGT CGTACCGTGN | GGAGGTGCAT GGTCAGCGTC | AATGCCAAGA CTCACCGTCC | CAAAGCCGCG TGCACCAGGA | 120 180 |
| | CTGGCTGAAT NGCAAGGAGT CGNGAAAACC ATCTCCAAAG CNCATCCCGN GACN | | | | | |
| 35 | SEQ ID NO: 4263 SEQUENCE LENGTH: 176 SEQUENCE TYPE: nucleic TOPOLOGY: linear | acid | | | | |
| 40 | CLONE: HUMGS05069 SEQUENCE DESCRIPTION: GATCCAGGGA ACAATGACTA | | | | | |
| 45 | AAGCCAACTA GGAAATTAGA TGATGCCAAT ACTTTTTTT SEQ ID NO:4264 | | | | | 176 |
| 50 | SEQUENCE LENGTH: 389 SEQUENCE TYPE: nucleic TOPOLOGY: linear CLONE: HUMGS05070 | acid | | | | |

| | SEQUENCE DESCRIPTION | N: | | | | |
|----|-----------------------|--------------|------------|------------|------------|-----|
| | GATCTTTNAG GAAAGACG | | AATAGACAGT | ATATTTTTNG | TCACAAGAGC | 60 |
| | CCAGCAGGGC CTCAAAGT | | | | | |
| 5 | TTGACGTCAA GTNTCCTT | | | | | |
| | TNTACAGTGT GTAAAGTG | | | | | |
| | TTGTATCATT TGAACAAC | | | | | |
| | TTTCCTGTTG CCACAACC | | | | | |
| 10 | TAGTTTTTTG CAACAGGT | | | | | 389 |
| | | | | | | |
| | SEQ ID NO:4265 | | | | | • |
| | SEQUENCE LENGTH: 436 | | | | | |
| | SEQUENCE TYPE:nuclei | c acid | | | | |
| 15 | TOPOLOGY:linear | | | | | |
| | CLONE: HUMGS05071 | | | | | • |
| | SEQUENCE DESCRIPTION | l: | | | | |
| - | GATCACCATG AAAGAAGAA | T AGTTTTTTGT | CCCCAGAGAC | ATTCATTTAG | TTGATATAAT | 60 |
| 20 | CCTACCAGAA GGAAAGCAC | T AAGAAACACT | CGTTTGTTGT | TTTTAAAGGC | AACAGACTTA | 120 |
| | AAGTTGTCCT CAGCCAAGG | A AAAATGATAC | TGCAACTTTA | AAATTTAAAG | TATCTTGCAC | 180 |
| • | TGATAAATAT ATTTAANAN | T TGTATGTTTA | TAAAGTTATT | AATTTGTNNN | GNCNGTGTTA | 240 |
| | CAAAATGTTC AGTTTATAT | T GTTTTAGATT | GTTTTGTAAT | TTTTAAAGGT | GTAAAATAAC | 300 |
| | ATATTTNTCC TTTATGGNN | A TCTATAAAAC | TTTCTGGTAG | TAAAATGTTT | TCATTTTTAC | 360 |
| 25 | TGGGTATATT ATTTGCTTC | | | | | |
| | TTTTTTTNN CAGGNN | | | | | 436 |
| | OPO ID NO AGGG | | | | | |
| | SEQ ID NO: 4266 | | | | | |
| 30 | SEQUENCE LENGTH: 533 | | | | | |
| | SEQUENCE TYPE: nuclei | c acid | | | | |
| | TOPOLOGY: linear | | | | | |
| | CLONE: HUMGS05073 | | | | | |
| 35 | SEQUENCE DESCRIPTION | - | | | | |
| | GATCTGTCCC CATCCGAAG | | | | | 60 |
| | TAAAACATTT AGAGTTTTG | | | | | |
| | TGGAATTTTG TTTAAAATT | | | | | |
| 40 | TATTGTGAAG AATTAAACT | | | | | |
| 40 | ATAATGGGTA TATTTGGAA | | | | | |
| | TAACAGATTA ATTCAGCAT | | | | | |
| | GGAAACAGGA AAAATTGCC | | | | | |
| | CCCNTAAATT TGTTTCCCA | | | | | |
| 45 | CATTTINAAN TTAAAGGNA | T TGNNGGGNNC | NAAGGNNGTN | TTTGANTTNN | TGN | 533 |
| | SEQ ID NO:4267 | | | | | |
| | SEQUENCE LENGTH: 124 | | | | | |
| | SEQUENCE TYPE:nuclei | c acid | | | | |
| 50 | TOPOLOGY:linear | | | | | |
| | CLONE · HUNGSOFOZA | | | | | • |

| | SEQUENCE DESCRIPTION: | | | | | |
|------------|------------------------|------------|------------|------------|------------|-----|
| | GATCAAGGAA GAGATGGAGG | CTTTCCCCGA | AAAGTTCTAG | CTGAGTGGCA | GAAGTGAGAA | 60 |
| | TTTGTAAACT TATGTACAAT | GTACGTGTAA | ATAAATGGAT | TGAATTTCAG | TTTGTCATCA | 120 |
| 5 . | GAAA | | | | | 124 |
| | | | | | | |
| | SEQ ID NO:4268 | | | | | |
| | SEQUENCE LENGTH: 451 | | | | | |
| 10 | SEQUENCE TYPE: nucleic | acid | | | | |
| - | TOPOLOGY: linear | | | | | |
| | CLONE: HUMGS05075 | | | | | |
| | SEQUENCE DESCRIPTION: | | | | | |
| | GATCTGGGAC AGATTTCACT | CTCACCATCA | CCAACCTGCA | GCCTGAAGAT | TTTCCAACTN | 60 |
| 15 | ATTACTGCCA ACAGTATGAT | AGTTACCCGC | TCACTTTCGG | CGGAGGGACC | AAGGTGGAGG | 120 |
| | TCAATCGANC TGTGGCTGCA | CCATCTNTNT | TCATCTTCCC | GCCATCTGAT | GAGCAGTTGA | 180 |
| | AATCTGGAAC TGCCTCTNTT | GTGTGCCTGC | TGAATAACTT | CTATCCCAGA | GAGGCCAAAG | 240 |
| | TACAGTGGAA GGTGGATAAC | GCCCTCCAAT | CGGGTAACTC | CCAGGAGAGT | NTCACAGAGC | 300 |
| 20 | AGGACAGCAA GGACAGCACC | TACAGNCTCA | GCAGCACCCT | TGACGNTNAG | CAAAGCAGNC | 360 |
| | TACGNGAAAC ACANAGTNTA | CGGCTGCGAA | GTTNACCCCN | TCAAGGGCCT | TGAGCTTNGN | 420 |
| | CCNGTCACAA AGGNGNTTTN | AAACAGGNGG | N | | | 451 |
| | | | | | | |
| | SEQ ID NO:4269 | | | | | |
| 25 | SEQUENCE LENGTH: 197 | | | | | |
| | SEQUENCE TYPE:nucleic | acid | | | | |
| | TOPOLOGY: linear | | | | | |
| | CLONE: HUMGS05076 | | | | | |
| 30 | SEQUENCE DESCRIPTION: | | | | | |
| | GATCTAGAAA CTGAGTTGTG | GAGCTGACTC | TAATCAAATG | TGATGATTGG | AATTAGACCA | 60 |
| | TTTGGCCTTT GANCTTTCAT | AGGAAAAATG | ACCCAACANT | TCTNAGCATG | AGCTACCTCA | 120 |
| | TCTCTAGAAG CTGGGATGGA | CTTACTATTC | TNGTNTATAT | NGNAGATACT | GAAAGGTGCT | 180 |
| 35 | ATGCTTCTNT NATTATN | | | | | 197 |
| | | | | | | |
| | SEQ ID NO:4270 | | | | | |
| | SEQUENCE LENGTH: 69 | | | | | |
| | SEQUENCE TYPE: nucleic | acid | | | | |
| 40 | TOPOLOGY:linear | | | | | |
| | CLONE: HUMGS05077 | | | | | |
| | SEQUENCE DESCRIPTION: | | | | | |
| | GATCCCATCC CCTTGTCTGA | ACTGGAGCCA | TGGGCACAAA | GGGCCCAGAT | TAAAGTCTTT | 60 |
| 45 | ATCCTCAAA | | | | | 69 |
| | • | | • | · | | |
| | SEQ ID NO:4271 | | | | | |
| | SEQUENCE LENGTH:54 | 6 | | | | |
| 50 | SEQUENCE TYPE: nucleic | acid | | | | |
| 50 | TOPOLOGY: linear | | | | | |
| | CLONE: HUMGS05079 | | | | | |

| | SEQUENCE DESCRIPT | | C CAATAAATTI | TTGTTTTGTG | CAAA | 54 |
|------------|--|--|--|--|--|-------------------|
| 5 | SEQ ID NO: 4272 SEQUENCE LENGTH: 10 SEQUENCE TYPE: nucl TOPOLOGY: linear | _ | | | | |
| 10 | CLONE: HUMGS05080 SEQUENCE DESCRIPTI GATCTAACCA ATTNAAA ATAGCTGGTT TGGNTGT | TAT GANTTCATAG | | | ATGAAAAGAA | 60 103 |
| 15 | SEQ ID NO:4273 SEQUENCE LENGTH:44 SEQUENCE TYPE:nucl TOPOLOGY:linear | | | | | |
| 20 | CLONE:HUMGS05081 SEQUENCE DESCRIPTI GATCACTGCT GGCCTAC CCAGTAACAT CTGGGCC | TCT GGTTACGGGG GCC TACGACCGGA | ACGGGAACCA | AGCGTTTAAT | GAAGACAATC | 120 |
| 25 | TCAAATTCAT CCTCATG TTCTGCTGTG TATGTAT AGGCTTTGGT GCAGTAC GGTGGAAGCT GGGGGTC TAGGAAGAAC CTTTNTT | GCC AAGGAGACCG CTG GAGGAGCCCC AGA AAAGAGAAAT | TGGGCTTTNN TNACCCAAGT GACCCATTTG | NNTNCTCAAG GGCGGCATCT NGAGGGGCTG | GCCAAGGCCC TAACGGCATT GGGGNCCTCC | 240 300 360 |
| 30 | TAGGAAGAAC CTTTNTT AAGNATTAAA ACTTNAA | | GNAAGGGATG | GGACTTTTNN | TTTTTTTCCC | 420 449 |
| 35 | SEQ ID NO:4274 SEQUENCE LENGTH:24 SEQUENCE TYPE:nucl TOPOLOGY:linear CLONE:HUMGS05082 SEQUENCE DESCRIPTION | eic acid | | | | |
| 40 | GATCTNCATA ANCAGGG TTTCCTGTGT NTCGTNA TGCTGCCAAG AAGTTGC TGTTTCTCTC ACTGGGC ACCCAAA | ITC CTGAGCTCAC GCA TCTGGCTCCA ICT GAAGTNAGTT | GGACAGACCT TCTATCATNC | TCAACTTCCA TNCTCTTTGA | AATTGGATAC TTCAAAGCAC | 120 180 |
| 4 5 | SEQ ID NO:4275 SEQUENCE LENGTH:42- SEQUENCE TYPE:nucle | | | | | -•- |
| 50 | TOPOLOGY:linear CLONE:HUMGS05083 SEQUENCE DESCRIPTION |) N : | | | · | |

| | GATCATTTCC CAAGATTGGT | TTCCCTTGAG | TTTTTGCTAA | AACAAATCTT | AGTAGTTTTG | 60 |
|----|-----------------------|------------|------------|------------|------------|-----|
| | CCCGTTTAAA ACAACTCACA | | | | | 120 |
| | TTTCAGTTTA GCCATGTATT | | | | | |
| 5 | GCCTCTATTC CAGCAAAAAG | | | | | |
| | GCCTGAAGAC TTCTAAAANG | | | | | |
| | AGTANGTTTC ACACTACCTT | | | | | |
| | TATCCATGTA TATCTNTNGT | | | | | |
| | TGNN | | | | | 424 |
| 10 | | | | | | |
| | SEQ ID NO:4276 | | | | | |
| | SEQUENCE LENGTH: 308 | | | | | |
| | SEQUENCE TYPE:nucleic | acid | | | | |
| 15 | TOPOLOGY: linear | | | | | |
| | CLONE: HUMGS05085 | | | | | |
| | SEQUENCE DESCRIPTION: | | | | | |
| | GATCTAAAAC TTCTGTTGCT | TTTGCCATTC | CAAAACTTTG | TCTTTGCCAG | AAAAGTGTTG | 60 |
| 20 | GTAACTATAA AGAAAATTAT | | | | | 120 |
| | GTAAATGAAT TGTNCCCACC | | | | | |
| | TGTTCACCAA AGTAGAACAA | | | | | |
| | GATTTTNTTT TTNCNTTAAA | | | | | |
| | AAGGNTTN | | | | | 308 |
| 25 | | | | | | |
| | SEQ ID NO:4277 | | | | | |
| | SEQUENCE LENGTH: 374 | | | | | |
| | SEQUENCE TYPE:nucleic | acid | | | | |
| 30 | TOPOLOGY: linear | | | | | |
| | CLONE: HUMGS05086 | | | | | |
| | SEQUENCE DESCRIPTION: | | | | | |
| | GATCGAGTCC GCCATGGAGA | GGGACCGCTA | CATGAGCCCC | ATGGAGGCCC | AGGAGTTTGG | 60 |
| 35 | CATCTTAGAC AAGGTTCTGG | | | | | |
| 00 | GCAGAAGGAG CCTGTAGAAG | | | | | |
| | GCTGGGCCTC CTCTCCAGAN | TCATGTGGAG | GGGCCAGAGG | CTGCCAGACC | CCCAGCTGGG | 240 |
| | CCCTGCTCAC CCCTTGTTGC | | | | | |
| | GGGTGCCCGN TATGGACGGG | GCATTNCAGC | TGAGACACTG | TGGATTTTAA | ATTAAATCTT | 360 |
| 40 | TTGTGGTCTT TAAA | | | | | 374 |
| | | | | | | |
| | SEQ ID NO:4278 | | | | | |
| | SEQUENCE LENGTH: 510 | | | | | |
| 45 | SEQUENCE TYPE:nucleic | acid | | | | |
| | TOPOLOGY:linear | | | | | |
| | CLONE: HUMGS05087 | | | | | |
| | SEQUENCE DESCRIPTION: | | | | | |
| 50 | GATCTGTGCT TTCCAGCTCA | | | | | |
| 00 | ACNTCCAGCN TCTGTTCCCC | | | | | |
| | GAGGACCCAG ACCCAGTGGG | GAGGCGGACG | TTCCAGCCGG | CATGGNTGGG | AACTGCAGAC | 180 |

| 5 | CTGTCCTCCT GGTGGGTCCA CCTGCCCGTT TTTTTCCCAT CTCTGTGCTG ACCCTCCTGT TCACCCTTTG GAGCTTTTGC GGGAGGTTGT TAAGGTTGTT ANCCNNTGGG GCGGNGNGNC | GGAGCCCCAG TGCACCCAGN AATGTTTCCA TNGGTGNNCT | CCCCCTTTGG CCTGGTNTCA NTAAANCCCN | GCCCAGGGAC GCAGCGACCA GGGNTGGGTT | ACCAGCCAGG CCCCTTGCNT NGGNAAGGTT | 300 360 420 |
|----|---|--|---|--|--|-------------------|
| 10 | SEQ ID NO:4279 SEQUENCE LENGTH:466 SEQUENCE TYPE:nucleic TOPOLOGY:linear | acid | | | | · |
| 15 | CLONE:HUMGS05088 SEQUENCE DESCRIPTION: GATCTAGCTT GGAGAGCTTG TCACCGCATG AGATAAAATA TTNTTGGAGA GATACATATT | AATGAAAAGC | CACTTCTGGA | GGGAATGAGG | CAGTCTGCCT | |
| 20 | CTAACCATGT TTACTCTACA AGCTTTCTAA GGCTAACCAG TGGCCCTTGA TTTCCCACCC TTCCCCAAAA NGATATGGTT | CTTGACCTGT GTCATCGTCC AACTTGTTCA | GATGGTCTGT TCAGTCCCTG GTTTGCCCTC | ATTGATTGTN CCTGCAACTA AATCCTGGGG | TCACACGCTT GGTTGCCAAC CCTCACTNAT | 240 300 360 |
| 25 | ACTITITIGG GAAACTNAAA | ATANAACANT | TTTTCAAAAC | GGGAAA | | 466 |
| 30 | SEQ ID NO:4280 SEQUENCE LENGTH:470 SEQUENCE TYPE:nucleic TOPOLOGY:linear CLONE:HUMGS05089 | acid | | | | |
| 35 | SEQUENCE DESCRIPTION: GATCGAGCCA CTGCTGAAGA GAGCCTTCTT TCAGGATGGA TCTNTGCCTG ANATTAATTC | AAAGGCACTA | GANGAAGCAA | ATGCCCTCCA | AGAAGGTCAT | |
| 40 | GAAGAGTTAA TTGTAGTTAC AAAATGGNGC AAAAGGCCAT ATTCCAGGNG ATTTTATCTA TGNANAATTN TTAATNTTN | TTCCAAACGA CTGAGCAATA TTTTTTTGGG | TTTAAATTTG TTTCCCTTTN GCCCTCTGGG | AGGAACCTTT GAACTTCAAG CCAAATTGGN | GCTACANGAN ATTTCTNCAC | 300 360 420 |
| 45 | TTTGNAGGTG GGTTAACCCA SEQ ID NO:4281 SEQUENCE LENGTH:476 SEQUENCE TYPE:nucleic | | TNCACCAGTC | CANNTNTTTN | | 470 |
| 50 | TOPOLOGY:linear CLONE:HUMGS05090 SEQUENCE DESCRIPTION: GATCTACAGT CACCATATAT AAGGTTAGAT GTGACTGGAT | | • | | | • |

| | TTTCAAAGAG CACTGTGAGG | NGTTCTGGCA | CACAATTAGG | TACCCCAATT | GGAAGCACAT | 180 |
|----|-----------------------|-------------|-------------|------------|------------|-----|
| | TTCCTGTAAG CATGCTGAAA | GCGTGGAGAC | AGAAGGAAAT | GGTGAGGACC | TGCGCCTTTN | 240 |
| | CCATTCTTTT GAAGAGTTAC | TCCTTGAGGC | TCATGGTGAC | TATGGATTAN | GGAATGACTA | 300 |
| 5 | TCACATGANT CTGGGCCAAT | TCTTAGAATT | TNTCAAGNTG | CACAAAATTT | NAGGCATGTT | 360 |
| | TTTTTCCNGT TACTATTTTG | GGTNTTNTNA | AGCAAAAANT | TTCAGNCTTC | NTAAAAAGCG | 420 |
| | GNTTAAAGGG GGNCCTATTG | NCCTGTNAAT | TTTCCACTNA | GGNCAGGTNT | TTCTTN | 476 |
| | | | | | | |
| 10 | SEQ ID NO:4282 | | | | | |
| .0 | SEQUENCE LENGTH: 277 | | | | | |
| | SEQUENCE TYPE:nucleic | acid | | | | |
| | TOPOLOGY: linear | | | | | |
| | CLONE: HUMGS05092 | | | | | |
| 15 | SEQUENCE DESCRIPTION: | | | | | |
| | GATCTGAATT GTNCGAAAAG | CAGCCAGTGC | CTAANTTGTA | GCTCCACTTA | TGCCAACTGT | 60 |
| | ATATACCT CTCGTGAGCA | TAGCAAGTNA | TTTANTATTT | TNAAAAGATG | GCTAAAATCC | 120 |
| | TTTTAATGAA CAGCACTAAA | GTTATATGTA | TTAGAGGAGA | ATTATTGANT | GANATGGAGA | 180 |
| 20 | AAGAGTTCTG AAATTANTAT | TTNCATTTGG | GCTTTTTTAC | AGATAATATT | ATATNNCTAA | 240 |
| | GTGACCAGAC GAAAGAGAAG | GGNGTAGAAA | AGGNTGN | | | 277 |
| | | | | | | |
| | SEQ ID NO:4283 | | | | | |
| | SEQUENCE LENGTH: 314 | | | | | |
| 25 | SEQUENCE TYPE:nucleic | acid | | | | |
| | TOPOLOGY: linear | | | | | |
| | CLONE: HUMGS05094 | | | | | |
| | SEQUENCE DESCRIPTION: | | | | | |
| 30 | GATCCCCAGA CCTCACTTGC | CTCTGCCTCC | ATCTTGGCCC | TGATTCAACC | CTAAGATAAT | 60 |
| | AGCACAACAA AATTCTNCAT | AAAGATATTT | TAATTCACCT | GTNCCGTGCT | ATATGGAGGA | 120 |
| | GGCCAAGTCC ATTTAGTGAC | ATTNCTNCCC | ATAATGTGAG | TGGGGAGGAT | TGTGGGGAGG | 180 |
| | AGGGGCTTTG GGTTCCTGTG | TTTGTGCATA | TGAAGGGAGA | TGGGGGTTAG | GTGGAGGAGG | 240 |
| 35 | AGAGCAGCGT GGTTAGCTAA | GGTTATTGCT | TTTTGTGGCA | AATCTAATTA | AATGACAGGA | 300 |
| | ATCTCTTCAC GAAA | | | | | 314 |
| | | | | | | |
| | SEQ ID NO:4284 | | | | | |
| | SEQUENCE LENGTH: 489 | | | | | |
| 40 | SEQUENCE TYPE:nucleic | acid | | | | |
| | TOPOLOGY: linear | | | | | |
| | CLONE: HUMGS05095 | | | | | |
| | SEQUENCE DESCRIPTION: | | | | | |
| 45 | GATCTTCATG GAGCTGAATG | | | | | |
| | CTTCTGAGGC CGCAGTGGTG | GTGGCTGCGC | ACACAGCTCC | ACAGGTTGGG | AGCCGTCGTG | 120 |
| | GGACCTGGGT CCCCACCGTN | AGGACCCCGT | GGGCGACAGA | GGTGTGGCCA | GGGTGGGGCT | 180 |
| | CCGAGCCCCG GGTCACCGCC | CGCCCAGCGT | TCCAGGCACA | TGAAGAGAAA | GCATTCCAAA | 240 |
| 50 | GCCTCTNATT GTTGTTTCCT | TTTTNTCCTC | CCGAAGAACA | GCTGATTCAT | GCTCCTCCCG | 300 |
| 30 | CAATTNTNAC GTCTGTAATT | | | | | |
| | CTTNCTCCCC CCCACCCTTC | CTTCCCCCCTT | CAATGCCCCCC | CTTCCTCTTT | TOCACCOCAA | 120 |

| | CTTTTGTAAA TCAAGTNCCG CGNTTGAAA | TGGGTTGGTN | TTGTTACAAG | AATTNAAAAC | TAATTTTTCC | 480 489 |
|----|--|------------|------------|------------|------------|------------|
| 5 | SEQ ID NO:4285 SEQUENCE LENGTH:292 | | | | | |
| 10 | SEQUENCE TYPE:nucleic TOPOLOGY:linear CLONE:HUMGS05096 | acid | | | | |
| | SEQUENCE DESCRIPTION: GATCATATTT CCCCTTGGAC | | | | | 60 |
| | GATTGTGGTT CCATGCAGCC CCCTGTGTTC ATTTGGTGTT | | | | | |
| 15 | GCTGCACATG TGCCACACAG GTATGAATAT TACTCTCAAA | | | | | 240 292 |
| | SEQ ID NO:4286 SEQUENCE LENGTH:173 | | • | | | |
| 20 | SEQUENCE TYPE:nucleic TOPOLOGY:linear | acid | | | | |
| | CLONE: HUMGS05099 SEQUENCE DESCRIPTION: | | | | | |
| 25 | GATCCCAGTG GAGGCTGTAA GCATTTGTGT GTATTAATGC | | | | | 60 |
| | TTTGCTATAT ACAGTTGTCC | | | | | 173 |
| 30 | SEQ ID NO:4287 SEQUENCE LENGTH:307 | | | | | |
| | SEQUENCE TYPE:nucleic TOPOLOGY:linear | acid | | | | |
| 35 | CLONE: HUMGS05100 SEQUENCE DESCRIPTION: | | | | | |
| | GATCAGAAAT GTGAAGCACA AGAAGAAAGC ACAGTGAGCT | GTTCACCAGT | CCAGCGGTGA | CCTCGGAGTC | CTTTGTAACA | 120 |
| 40 | GTGTTTCCAA TANCTTCTGC TCAACTAGTG TCTGATAGCT | GAGAATGTAA | TTCGTTTNTN | TGTCTATTAG | AAAATTAGGC | 240 |
| | AGGCACCACA GACAGTAGCA NNCNCNN | ACATAAAGGA | ACCIGCTIAG | AAGNGGTTTT | NATGGGNNNN | 300 307 |
| 45 | SEQ ID NO:4288 SEQUENCE LENGTH:244 | | | | | |
| | SEQUENCE TYPE:nucleic TOPOLOGY:linear | acid | | | | |
| 50 | CLONE: HUMGS05102 SEQUENCE DESCRIPTION: | | | | | |
| | GATCCTTAAA TCTCCATTCT | GTTTGTGGTT | GCCCCCTCAA | CCTCCCCTAC | ACCCTTCCTA | 60 |

| | TTCTTTTNCA TTCTTCTTGC | AGTTCTGGGA | GTAAAGCTCC | CAGCATATTT | AGATAATAGG | 120 |
|----|-----------------------|------------|---|------------|---------------------|-----|
| | GCAGGGGAAG CACCCTCTTT | CTTTCTAGAC | TGGATTATGC | TCACATGCTC | CCTTGCCCTG | 180 |
| | ACATTTTTGT AAATNCTGTG | CCCTTTGCTG | TAGCTACACT | TCAGATTAAA | GTAGGAGAAA | 240 |
| 5 | GAAA | | | | | 244 |
| | | | | | | |
| | SEQ ID NO: 4289 | | | | | |
| | SEQUENCE LENGTH: 69 | | | | | |
| 10 | SEQUENCE TYPE:nucleic | acid | | | | |
| | TOPOLOGY: linear | | | | | |
| | CLONE: HUMGS05103 | | | | | |
| | SEQUENCE DESCRIPTION: | | ana.a.mmaa | | + C C C P P C + + + | ~~ |
| 15 | GATCAAAGTT GGCGGGGGCT | TGGCTGTGCC | CTCAGATTCC | GCACCAATAA | AGCCTTCAAA | 60 |
| | CTCCCTAAA | | | | | 69 |
| | SEQ ID NO:4290 | | | | | |
| | SEQUENCE LENGTH: 341 | | | | | |
| 20 | SEQUENCE TYPE:nucleic | acid | | | | |
| 20 | TOPOLOGY: linear | | | | | |
| | CLONE: HUMGS05104 | | | | | |
| | SEQUENCE DESCRIPTION: | | | | | |
| | GATCTTTNAT CCTTTGTTGC | AAAAGTGTGG | ACACTTTTNA | NAGCTTGGCA | GATTTNAACT | 60 |
| 25 | CCAGAAGCAC TTTATGAAAT | GGTACACTGA | CTAATCCAGA | AGACATTTCC | AACAGTTTGC | 120 |
| | CAGTGGTTCC TCACTACACT | GGTACTGAAA | GTNTAATTNN | TTAGAGCCAA | AAAACTGGAG | 180 |
| | AAACAAATAT CCTGCCACCT | CTAACAAGTA | CATGAGTACT | TGATTTTAAT | GGTATAAGGC | 240 |
| | AGAGCCTTTN NTTCCTCTTC | TTGATAGATG | AGGCCATGGT | GTAAATGGAA | GTTTCAGAGA | 300 |
| 30 | GGACAAAATA AAACGGAATT | CCATTTTTT | NTCACTGTAA | A | | 341 |
| | | | | | | |
| | SEQ ID NO:4291 | | | | | |
| | SEQUENCE LENGTH: 395 | | | | | |
| 35 | SEQUENCE TYPE:nucleic | acid | | | | |
| | TOPOLOGY: linear | | | | | |
| | CLONE: HUNGS05105 | | | | | |
| | SEQUENCE DESCRIPTION: | | 1017111710 | CCCC+CCCTT | TTC1C110CC | 60 |
| 40 | GATCTTAGAG TCACTTTGGA | | | | | 60 |
| 40 | GGCTTGTTAA AGGACGCGTA | | | | | |
| | GGGATTGACT TGGCCTTCAG | | | | | |
| | AACANAGNNT GGAATGGACT | | | | | |
| | TGTAGAATTT TTTTTTGATT | | | | | |
| 45 | TTATGTATAT ATTANTATAA | | • | MIINIICCIA | IICCAGGGIN | |
| | GCATAANGCA TTTTNNANTT | INGGGGTTTT | GONIN | | | 395 |
| | SEQ ID NO:4292 | | | | | |
| | SEQUENCE LENGTH: 349 | | | | | |
| 50 | SEQUENCE TYPE:nucleic | acid | | | | |
| | TOPOLOGY: linear | | | | | |

| | CLONE: HUMGS05106 | | | | |
|----|---|------------|------------|------------|----------------|
| | SEQUENCE DESCRIPTION: | | | | |
| 5 | GATCATATTT TGCAGTTTTA | | | | |
| 3 | CCCCCATGAN GTGAAAAGGT | | | | |
| | TGTCATACCC ATGANGTGCA GTACCAAAGG TAGTCTAGTC | | | | |
| | ACTGTAACAT CCTTATACTT | | | | |
| | ATATTTTCCA CACCTTTTT | | | | 349 |
| 10 | MINITIOUN CACCITITI | HILLITINGC | ONTUNNUUUT | CONGGGTAIN | 0.13 |
| | SEQ ID NO:4293 | | | | |
| | SEQUENCE LENGTH: 257 | | | | |
| | SEQUENCE TYPE:nucleic | acid | | | |
| 15 | TOPOLOGY:linear | | | | |
| | CLONE: HUMGS05107 | | | | |
| | SEQUENCE DESCRIPTION: | | | | |
| | GATCTGCCAT TTATTAGCTG | | | | |
| 20 | TTTCTTAGCT GTAAAATTGG | | | | |
| | CATCATAGGA TAGTGTAAGA | | | | |
| | CAGAGGAGTT TTAGGTATTA | AGTGATGCCA | AATATAATTT | NTNAATTGTA | |
| | CTATATNCTT ACTGAAA | | | | 257 |
| 25 | SEQ ID NO:4294 | | | | |
| | SEQUENCE LENGTH: 212 | | | | |
| | SEQUENCE TYPE: nucleic | acid | • | | |
| | TOPOLOGY: linear | acra | | | |
| 30 | CLONE: HUMGS05108 | | | | |
| | SEQUENCE DESCRIPTION: | | | | |
| | GATCACCATC CCAGTAACCT | TCNAGTCGCG | GGCCCAGCTT | GGGGGCCCAG | AAGCTGCAAA 60 |
| | ATCCGATGAG ACTGCCGCCA | | | | |
| 35 | CTGGCTGTGC CTCNCCCGTN | ACCTGTGTGT | TCTTTTNATA | CATTTATCTT | CTGTTTTTNT 180 |
| 00 | CAAATAAAGT TCAAAGCAAC | CACCTGNANA | AA | | 212 |
| | | | | | |
| | SEQ ID NO:4295 | | | | |
| 40 | SEQUENCE LENGTH: 559 | | | | |
| | SEQUENCE TYPE: nucleic | acid | | | |
| | TOPOLOGY: linear CLONE: HUMGS05109 | | • | | |
| | SEQUENCE DESCRIPTION: | | | | |
| | GATCCAGTGG GGATGTTGTN | | CTCCACTCTC | CCTGCCCGTN | ACCUTTGGAC 60 |
| 45 | AGCCGGCCTC CATCTCCTGC | | | | |
| | ACTTGANTTG GTATCAGCAG | | | | |
| | CTAAGCGGGA CTCTGGCGCC | | | | |
| | CACTGACANT TAGCAGGGT | | | | |
| 50 | AACACACTGG NCTCAGACGT | | | | |
| | GTGGCCTTGC ACCNATCTT | | | | |

| | ATNTTGGGAA CCTNGCCTC | C TTTTTGGTGN | TGCCTTGNCT | TGAAATAACT | TNNTTATTCC | 480 |
|----|---|--------------|------------|------------------------|------------|-----|
| | CAAGAGGAGG GNCAAANTT | C AAGTTGGGAA | GGTTGGTTTA | ACCGGCNTTC | CAATTCNGGG | 540 |
| _ | GNAANTCCCN TGGNGGGNN | | | | | 559 |
| 5 | | | | | | |
| | SEQ ID NO:4296 | | | | | |
| | SEQUENCE LENGTH: 50 | | | | | |
| | SEQUENCE TYPE:nuclei | c acid | | | | |
| 10 | TOPOLOGY: linear | | | | | |
| | CLONE: HUMGS05110 | _ | | | | |
| | SEQUENCE DESCRIPTION GATCTCTATG TATGTGTGT | • | ሮጥጥጥጥጥ ነጥር | TAT. T. T. A. T. A. S. | | 50 |
| | UNICICIATO INIGIGIOI | A IAIAAAIAIA | GIIIIIIAIC | INININIAA | | อบ |
| 15 | SEQ ID NO:4297 | | | | | |
| | SEQUENCE LENGTH: 548 | | | | | |
| | SEQUENCE TYPE:nuclei | c acid | | | | |
| | TOPOLOGY: linear | | | | | |
| 20 | CLONE: HUMGS05111 | | | | | |
| | SEQUENCE DESCRIPTION | : | | | | |
| | GATCAAACGA ACTGTGGCT | G CACCATCTTT | NTTCATCTTC | CCGCCATCTG | ATGAGCAGTT | 60 |
| | GANATNTGGA ACTGCCTCT | r ttgtntgcct | GCTGAATAAN | TTCTATCCCA | GAGAGGCCAA | 120 |
| 05 | AGTACAGTGG AAGGTGGAT | A ACGCCCTCCA | ATCGGGTAAC | TCCCAGGAGA | GTGTCAÇAGA | 180 |
| 25 | GCAGGACAGC AAGGACAGC | A CCTACAGENT | NAGCAGCACC | CTGACGCTGA | GCAAAGCAGA | 240 |
| | CTACGAGANA CACAAAGTN | r acgnetgena | AGTCACCCAT | CAGGGCCTGA | GCTCGCCCGT | 300 |
| | CACAAAGAGC TTCAACAGG | | | | | |
| | TCAGTTCCAG CNTGACCCT | | | | | - |
| 30 | GNCCTACCCN TTTTGGNGG | | | | | |
| | TCCTTTGGGG TTTAAATTA | r tgnttaattt | TTGGGGGNGG | ATTGNTTTAA | ATTAAAGGGA | |
| | ATNTTTTN | | | | | 548 |
| | SEQ ID NO:4298 | | | | | |
| 35 | SEQUENCE LENGTH: 415 | | | | | |
| | SEQUENCE TYPE: nuclei | r acid | | | | |
| | TOPOLOGY: linear | L acru | | | | |
| | CLONE: HUMGS05112 | | | | | |
| 40 | SEQUENCE DESCRIPTION | • | | | | |
| | GATCAGCGCC TGAGAAGTC | G TCGGGCGATG | TCCCCGCGCC | GTGTCCCTCT | CCAAGCNCCG | 60 |
| | CCCCTGGGTG GGCTCGGTG | | | | | |
| | GCCCAAAGAG CCCCGAGGG | A ACCTGCCGGG | GCAGCGGACG | TTGGAAGGC | GCTGGGCCTC | 180 |
| 45 | GGNTGGNACC GTTCATGTA | | | | | |
| | TTTTTTTAAA TTTTNAAAA | C TGTGCAATGT | ATTAATAACG | TNTTTTTATA | TCTAAATGGT | 300 |
| | ATTCTGCACG AGANGNTAC | A CTGGGTCCCA | AAGGTGTAAA | AGCTTTTTAA | GAGTCATTGT | 360 |
| | ATTATAAAAN TNNNTTTAA | T CTNTTGGTTG | AAATCTTNAA | GTGNNANAGT | ATTNN | 415 |
| 50 | | | | | | |
| J0 | SEQ ID NO: 4299 | | | | | |
| | SEQUENCE LENGTH: 156 | | | | | |

| | SEQUENCE TYPE:nucleic TOPOLOGY:linear | acid | | | | |
|----|--|------------------|------------|-------------|------------|-----|
| | CLONE: HUMGS05113 | | | | | |
| 5 | SEQUENCE DESCRIPTION: | | | | | |
| | GATCTAATCT NAGATGTAAA | | | | | 60 |
| | TTGGTCATAG CTAGTACCTT | GTATGANGAT | GGTACCCTGG | ATGATGGTGA | ATACAACCCC | 120 |
| | ACTNATGATA GGCCTTCCAG | GGCTGACCAG | TTTNAN | | | 156 |
| 10 | ADA ID NA 4000 | | | | | |
| | SEQ ID NO:4300 | | | | | |
| | SEQUENCE LENGTH: 310 SEQUENCE TYPE: nucleic | anid | | | | |
| | TOPOLOGY: linear | aciu | | | | |
| 15 | CLONE: HUMGS05114 | | | | | |
| | SEQUENCE DESCRIPTION: | | | | • | |
| | GATCTTACTT TCATCCAGTC | TAATAGGTTT | GGAGATTAAA | CCTTTNCTCA | ACTTGTGCTG | 60 |
| | TTTATATAGC CAAGCTTCCG | | | | | |
| 20 | CCACATACCA GGAACTATTG | GACATTTATT | TTACATGGGA | AAAATTATTT | GGAATAATAA | 180 |
| | AGCAGGNACT TTNCCTGANG | TTGCAATTTA | TACTGTATGG | CTNCTNNTTC | ATGTTTCATC | 240 |
| | TAGGTTTTAN GAAGTGAAGT | ATANGTAAAT | NTNGGTTCGT | TAAATNGTGA | TGGCGCTGGN | 300 |
| | NATTACATGN | | | | | 310 |
| 25 | | | | | | |
| | SEQ ID NO:4301 | | | | | |
| | SEQUENCE LENGTH: 231 | | | | | |
| | SEQUENCE TYPE:nucleic | acid | | | | |
| | TOPOLOGY: linear | | | | | |
| 30 | CLONE: HUMGS05115 | | | | | |
| | SEQUENCE DESCRIPTION: | TT 1 1 C 1 C 1 C | COTCOCCAAC | interctore | 1C1CCCTCTC | co |
| | GATCACTCAA GCACAGGATT TCTACAAAAA AATTAAAAAT | | | | | 120 |
| | TGGGGCATTG AGGCAAGAGG | | | | | |
| 35 | ATTGTAGTGC TGTACTCCAG | | | | - | 231 |
| | niidindido idinoiconu | COTOTOCALA | MINGINGUIO | 01101010101 | | 201 |
| | SEQ ID NO:4302 | | | | | |
| | SEQUENCE LENGTH:52 | | | | | |
| 40 | SEQUENCE TYPE:nucleic | acid | | | | |
| | TOPOLOGY: linear | | | | | |
| | CLONE: HUMGS05116 | | | | | |
| | SEQUENCE DESCRIPTION: | | | | | |
| 45 | GATCGGGCCA CTGCACTCCA | GCATGGGTGA | AAAAGTGAGA | CCCTACCTCA | AA | 52 |
| | SEQ ID NO:4303 | | | | | |
| | SEQUENCE LENGTH: 419 | | | | | |
| | SEQUENCE TYPE:nucleic | acid | | | | |
| 50 | TOPOLOGY: linear | uciu | | | | |
| | CLONE: HUMGS05117 | | | | | |
| | | | | | | |

| | SEQUENCE DESCRIPTION: | | | | | |
|------|------------------------|------------|------------|------------|------------|-----|
| | GATCACCAAC AGCCGTCCTC | CCTGCGTCAT | CCTGTGACTG | CACAGGACTC | TGGGTTCCTG | 60 |
| | CTCTGTTCTG GGGTCCAAAC | CTTGGTCTCC | CTTTGGTCCT | GCTGGGAGNT | CCCCCTGCCT | 120 |
| 5 | CTTTCCCCTA CTTAGCTCCT | | | | | |
| | AAAGAAGGAA TAGAAGATTC | CGTGGCCTTG | GGGGCAGGAG | AGAGACACTC | TCCATGAACA | 240 |
| | CTTCTCCAGC CACCTCATAC | | | | | |
| | CTCTTNGNCT CGGGTAATAC | | | | | |
| 10 | AACCCNAGGG CAATGTCANN | | | | | |
| 10 | | | | | | |
| | SEQ ID NO:4304 | | | | | |
| | SEQUENCE LENGTH: 75 | | | | | |
| | SEQUENCE TYPE: nucleic | acid | | | | |
| 15 | TOPOLOGY:linear | 30.2 | | | | |
| | CLONE: HUMGS05118 | | | | | |
| | SEQUENCE DESCRIPTION: | | | | | |
| | GATCTCCCTA GGGCCCCACC | TGGACCATTT | TCCCTCCGTT | TTATTTTGTT | AATTAAATTC | 60 |
| 20 | TTTCCAAATT GGAAA | | | | | 75 |
| -: | | | | | | |
| | SEQ ID NO:4305 | | | | | |
| | SEQUENCE LENGTH: 171 | | | | | |
| | SEQUENCE TYPE:nucleic | acid | | | | |
| 25 | TOPOLOGY: linear | | | | | |
| | CLONE: HUMGS05119 | | | | | |
| | SEQUENCE DESCRIPTION: | | | | | |
| | GATCTCAGTT CACTGCAACC | TCCGCCTCCN | AGGTTCAGGT | GATTCCNTTG | TCCCAGCTAC | 60 |
| 30 | TTGGGAGGCT GAGGCAGGAG | | | | | |
| | GATTGCACCA CTGCACTCCA | | | | | 171 |
| | | | | | | |
| | SEQ ID NO:4306 | | | | | |
| 35 | SEQUENCE LENGTH: 309 | | | | | |
| 33 | SEQUENCE TYPE: nucleic | acid | | | | |
| | TOPOLOGY: linear | | | | | |
| | CLONE: HUMGS05120 | | | | | |
| | SEQUENCE DESCRIPTION: | | | | | |
| 40 - | GATCCCTGGT GTGTTGTGTG | GGCCTCTTTA | ACGTTTGCCA | CTGAGCCTTA | ACCTCACTGT | 60 |
| | ACTTCACTGT ACTTCACACG | CATTGGTGTT | AACATTTTAA | TCTTAGAAGA | CCCTGACCCA | 120 |
| | CTGAGGGTTT GTTGTGAGAA | TTGCTGAAGC | CACGTAGAAG | CACCTTGAAA | TCTGTAAAAC | 180 |
| | CACAAGAAAG TACTTTATAA | AAGGTATCCT | TATTTGAAGT | GGATAAATCT | TGTAACTCGA | 240 |
| 45 | AAAGTTGTGA TTTAGAAGAC | | | | | |
| | GTCCTTAAA | | | | | 309 |
| | | | | | | |
| | SEQ ID NO:4307 | | | | | |
| | SEQUENCE LENGTH: 587 | | | | | |
| 50 | SEQUENCE TYPE:nucleic | acid | | | | |
| | TOPOLOGY: linear | | | | | |

| | CLONE: HUMGS0512 | 1 | | | | | |
|----|-------------------------------------|---------|-----------------------|------------|--|----------------------------|-----|
| | SEQUENCE DESCRI | _ | | | | | |
| | GATCTAAAAA CTCA | | GGGTAAAGAG | TTAAGTGTCC | AAAGGTTGTC | ACAGTTCATG | 60 |
| 5 | AGGTCAGAGG GAGC | | | | | | |
| | CAGAAGTGTA TTTA | | | | | | |
| | TTATTAAGAT ACAG | | | | | | |
| | AACAAAGTCA CTAT | | | | | | |
| | ATGGGTAGGN GAAT | | | | | | |
| 10 | ACCAGTGGGG AACT | | | | | | |
| | TTCNCTTAAA TTTG | | | | | | |
| | TTTTTTGGGG NTTG | | | _ | | | |
| | | | | | | CCCGGGGIII | 587 |
| 15 | TTCTTGGGNT TTNTI | NAAGGG | IINCCCCAAA | NIIIGGUINA | AAACNIN | | 301 |
| | CEO ID NO. 4200 | | | | | | |
| | SEQ ID NO:4308 | . 1 1 1 | | | | | |
| | SEQUENCE LENGTH | | | | | | |
| | SEQUENCE TYPE:no TOPOLOGY:linear | ucieic | acio | | | | |
| 20 | | • | | | | | |
| | CLONE: HUMGS0512 | | | | | | |
| | SEQUENCE DESCRI | | 10000000000 | ********** | ************************************** | ጥጥ ! መምጥመው ! | 60 |
| | GATCCCCCCA TCTC | | | | | | |
| 25 | TCTTNTCAGA TTAGA | AACATA | TTTTNNIIGT | CATGACAAAG | GACICICCAA | A | 111 |
| | SEQ ID NO:4309 | | | | | | |
| | SEQUENCE LENGTH | . 211 | | | | | |
| | | | :- | | | | |
| 20 | SEQUENCE TYPE:ni | ucieic | aciu | | | | |
| 30 | TOPOLOGY: linear | n | | | | | |
| | CLONE: HUMGS0512: | - | | | | | |
| | SEQUENCE DESCRI | | ~~~ . ~~~ . ~~ | TOLLCOOOCA | CCCTACCALA | CCCACTTACA | 60 |
| | GATCTNAACT CCTTC | | | | | | |
| 35 | TAAAAGTTGG CTCA | | | | | | |
| | GGGGGTGGG CGCC | | | | • | | |
| | AAGAAGTGAC TCTT | | | | | | |
| | | GCAACI | AAAAAAAIIA | AUAAATICAC | TICCCCICIA | UIAUUIUAIU | 311 |
| 40 | ATAGGGTTTT N | | | | | | 311 |
| | SEQ ID NO:4310 | | | | | | |
| | SEQUENCE LENGTH | . 266 | | | | | |
| | SEQUENCE TYPE:n | | | | | | |
| • | TOPOLOGY: linear | | aciu | | | | |
| 45 | CLONE: HUMGS 0512 | | | | | | |
| | | _ | | | | | |
| | SEQUENCE DESCRI | | ***** | ***** | 4.0000000000 | TO 1 1 TT 1 1 CO | 66 |
| | GATCAGAGTT TCTG | | | | | | |
| 50 | GGGAGACGAC CTTC | | | | | | |
| | TGATGTGTCA TGCA | | | | | | |
| | ACTGATAAAC AGAA' | TATNNY | GAAAGGTGAG | ACTIGGGCTT | ACCATTGGGT | TTAAATCATA | 240 |

| | | | | | | TCATGGCCTT NAGCTGAGCC | |
|----|--|--|--------------------------|--------------------------|--------------------------|--|----------|
| 5 | | | | | | | |
| 10 | TOPOLOGY: 1 i | CNGTH:240 (PE:nucleic near 605127 | acid | | | | |
| 15 | GACCAGGCCT AGAGGAACAG | ACCTGGCAGC GCAGGGGATG AGATACACAT | GAACCTTCCA GCCATGGTGC | GAAGTGGGCC AGCACGAGGG | GCTGTGGTGG GCTNCCCCAG | AGCTTGTGGA TGCCTTCTGG CCCNTNATCC GCTGGCCTTN | 180 |
| 20 | TOPOLOGY: 1 i | NGTH:96 PE:nucleic near | acid | | | | |
| 25 | | | | | TACACACTGA | TTTTTNTGCT | 60 96 |
| 30 | SEQ ID NO:4 SEQUENCE LE SEQUENCE TY TOPOLOGY:1i | NGTH:354 PE:nucleic | acid | | | | |
| 35 | ATCTGTCACC | SCRIPTION: TCCTTGCAGG GAGCTTNATC | CGAATGTGCC | ACGGAGCTTN | CTCTCCACTT | CCTCCGTGCA | |
| 40 | GGACTCGGCT CAGAGCAGCC | ATTTAAAGCA | CCAGTCTGGG GGGAACAAGA | GTCGCCTGGG CGGACTTNCT | CCCCTGCTGA ATNCCTTCGG | GGNATTAGCA CCCNTTCCTN ACTCACAGCC GNGN | 240 |
| 45 | TOPOLOGY: 1 i | NGTH:161 PE:nucleic near | acid | | | | |
| 50 | | SCRIPTION: TTTCGGCCGG | | | | AGCAGCATCA CTATCCATGT | |

| | GGAATGCTGG ACAATAAAGC | GAGTGCTGCC | CACCCTCCAA | A | | 161 |
|----|--|------------|------------|------------|------------|------------------|
| 5 | SEQ ID NO:4315 SEQUENCE LENGTH:129 SEQUENCE TYPE:nucleic TOPOLOGY:linear CLONE:HUMGSO5132 | acid | | | | |
| 10 | SEQUENCE DESCRIPTION: GATCCTGGCT TTCCAGGGTG GGGCTGTAGG GTAAGCCCCT GTATTTAAA | | | | | |
| 15 | SEQ ID NO:4316 SEQUENCE LENGTH:227 SEQUENCE TYPE:nucleic TOPOLOGY:linear | acid | | | | |
| 20 | CLONE:HUMGSO5133 SEQUENCE DESCRIPTION: GATCTTTGAG GTGAACAACT CTGAAATTCT CCTNTGTCCC | | | | | 60 120 |
| 25 | GGGCTACCAG CAGGTGGCGC TNCCACAAAT AAAGCCCAAT SEQ ID NO:4317 | | | | AGCCCNCTTC | 180 227 |
| 30 | SEQUENCE LENGTH:154 SEQUENCE TYPE:nucleic a TOPOLOGY:linear CLONE:HUMGSO5134 SEQUENCE DESCRIPTION: | acid | | | | |
| 35 | GATCTCCGTG GATGAACTGC (AGTNACAGAC CCTCCCCTCT (CAGCACAGCA ATAAATNGNG (| CCTCAGTGCA | CTTTGGCATT | | | 60 120 154 |
| 40 | SEQ ID NO:4318 SEQUENCE LENGTH:181 SEQUENCE TYPE:nucleic a TOPOLOGY:linear . | acid | | | | |
| 45 | CLONE:HUMGS05135 SEQUENCE DESCRIPTION: GATCAGGTTT GGNCTTCTCC (AAACATCGAA ACAAAAGCTC A GTTGTCCCCC CGGCACGNTC (| AGTACGATGC | CAACTNTTAA | GCCTGCAGGA | NTCCTCCTGG | 180 |
| 50 | N SEQ ID NO:4319 | | | | | 181 |

| 5 | SEQUENCE LENGTH: 315 SEQUENCE TYPE: nucleic TOPOLOGY: linear CLONE: HUMGS05136 | acid | | | | |
|----|--|---------------------|------------|------------|------------|-----|
| | SEQUENCE DESCRIPTION: GATCTGCCCT TGNTNGCCTC | 1 T 1 C C T C T C T | COTCOACACT | CCCCCC+CCC | CACCTCACTC | 60 |
| | CCTCCATCCG TGGATGCTTT | | | | | 60 |
| | CACCAGGTTG GGGGGCATGT | | | | | |
| 10 | CCGGGAGCCT GAACCTCCTG | | | | | |
| | GGCGCTGCGC ACAGGCGTGG | | , | | | |
| | TTAAAAAAAC ATCCN | CIGIACACGI | dererender | CATCATCCTT | ICCAGIAACI | 315 |
| | TIANANANC ATCOM | | | | | 310 |
| 15 | SEQ ID NO:4320 | | | | | |
| | SEQUENCE LENGTH: 255 | | | | | |
| | SEQUENCE TYPE:nucleic | acid | | | | |
| | TOPOLOGY: linear | | | | | |
| 20 | CLONE: HUMGS05137 | | | | | |
| 20 | SEQUENCE DESCRIPTION: | | | | | |
| | GATCGNGNNA CTTGGGGNGN | GGCCCTAGGC | ACTACCAGCA | GCGCACGCTC | ACCTTCGCCC | 60 |
| | TCAGGGCTGA CGACCCCCTG | | | | | 120 |
| | CAGGCAGAAG AGCACAGATG | TGTGGGATTG | GGGGAGGAGT | GGGGACAAGA | TTTTTNATCT | 180 |
| 25 | CTAAGTGAAT TTTCTAAAAA | TGTATTTTAT | ACCGGCTTAT | TCCTAGTATT | GNATAAACTA | 240 |
| | GCGGGNTCAN TCAAA | | | | | 255 |
| | | | | | | |
| | SEQ ID NO:4321 | | | | | |
| 30 | SEQUENCE LENGTH: 212 | | | | | |
| | SEQUENCE TYPE:nucleic | acid | | | | |
| | TOPOLOGY: linear | | | | | |
| | CLONE: HUMGS05138 | | | | | |
| 35 | SEQUENCE DESCRIPTION: | | | | | |
| •• | GATCAAACAT GCATGGNTGG | GTCCTCACGC | AGACACACCC | ACAGAAGGAC | ACTAGCCTGT | 60 |
| | GCACGCGCGC GTCNATCTAC | | | - | - | |
| | TTAAGCAAAA TGCTTCTGCA | CACAAAACTC | TCTGGTTTAC | TTCAAATTAA | CTCTATTTAA | |
| | ATAAAGTCTC TCTGACTTTT | TGTGTCTTCA | AA | | | 212 |
| 40 | | | | | | |
| | SEQ ID NO:4322 | | | | | |
| | SEQUENCE LENGTH: 136 | | | | | |
| | SEQUENCE TYPE: nucleic | acid | | | | |
| 45 | TOPOLOGY: linear | | | | | |
| | CLONE: HUMGS05139 | | | | | |
| | SEQUENCE DESCRIPTION: | | | | | |
| | GATCGAGTTA TTATGATAAC | | | | | 60 |
| 50 | GTTTTGGTAA CTNCTGACAA | GAAATTTNAT | GTAGAGAGTT | AATTTCGAGC | ACATTAAAAT | |
| | GACTGTCCCA CTCAAA | | | | | 136 |

| 5 | SEQ ID NO:4323 SEQUENCE LENGTH:228 SEQUENCE TYPE:nucleic acid TOPOLOGY:linear CLONE:HUMGSO5140 SEQUENCE DESCRIPTION: | |
|----|--|----------------|
| 10 | GATCTGCATT ATTCTNGGAN AGTATTCAAG TGGTATCTTG ACTATTAAAC TACGTATAGT 60 GTTNNTGNAA TAGAAAGAAA ACAGCATTGG AATTGGATTC ATGTATCGTG GGATACAGGT 120 GTTATTTCAG GTGATGTACT TGCATTATTT TCTTTAGCCA TAGTAACTTT TTGTCACAAT 180 AACTAAGTAT TCAATTATAT ATAANGAGTG AAACATTAAA ATGGNAAA 220 | 0 |
| 15 | SEQ ID NO:4324 SEQUENCE LENGTH:297 SEQUENCE TYPE:nucleic acid TOPOLOGY:linear | |
| 20 | CLONE: HUMGSO5141 SEQUENCE DESCRIPTION: GATCCTGCCA CTGCACTCCA GGCTGGGCAA CAGAGTGAGA CCATGTCTCA AAAAATAAAA 60 ATAAAATAAA ATAATATCAG GNTGCATACA TCAGAGGCTG TTCCTAGTGT AAAGGCACTT 12: TGGAGGGAGA AGACTTTCAG AGTTAGGCAG ACCAACTAAG AGGTCAGCTG ANGCACCTAA 18 | 0 |
| 25 | CCAGTTGTAA GGAGGTGAAA GACAGCACCC CAAGANGAGA TGTGCAGGAN GGAGGAAAGA 24 GGCTTGGTCA TAAAGGNTGG AGGAATTCCA AAGTGACACT GANACAGGCT GCGTTTN 29 | 0 |
| 30 | SEQ ID NO:4325 SEQUENCE LENGTH:90 SEQUENCE TYPE:nucleic acid TOPOLOGY:linear CLONE:HUMGS05142 | |
| 35 | SEQUENCE DESCRIPTION: GATCGTTCTG CTGAGTATGT TAAGCTCTTT ATGACTGTTT TTGTAGTGGT ATAGAGTACT 6 GCAGAATACA GTAAGCTGCT CTATTGTAAA 9 | 0 |
| 40 | SEQ ID NO:4326 SEQUENCE LENGTH:411 SEQUENCE TYPE:nucleic acid TOPOLOGY:linear CLONE:HUMGS05143 | |
| 45 | SEQUENCE DESCRIPTION: GATCTGCTGC TGCCATTTTA ATCTTGCTCA TTAACCTTAC TCCTTTGAGA ATTCTTTAAC 6 AATATTTAAA ATTGGTAACA AAAATAGTTT AGCCATAATT GTTTAGCCAT GTGAGTTTCA 12 GGTTGGTACA CGTTCAGACA GAACTGCTGT ATCACATTCC AATTTTGAAT AGCCAGTGAG 18 | 20 |
| 50 | CAATCAAGTG TAGAGAAATG ATAAATGGCC TAAGAAGGCA TACAGTGGCA TAAACGATGC 24 TCTTCCTAGT AGCTTAATAG GCCACAAGCT AGTTTCTGTT GCACTCTGAA ATAAAATATG 3C CTTTAAAAAT GTAGGGANCA GTGCTTAGAA AAGCAAAANC TAGGTGTGTC ATTGANATAA 3C TAGGCATAAN ACTTAAATGT TCCATAGGCC ACTATTTGGA AGGGGGCCTT N 41 | 10 00 50 |

| 5 | SEQ ID NO:4327 SEQUENCE LENGTH:99 SEQUENCE TYPE:nucleic TOPOLOGY:linear CLONE:HUMGSO5144 | acid | | | | |
|----|---|--|--------------------------|--------------------------|--------------------------|------------|
| 10 | SEQUENCE DESCRIPTION: GATCTACACA TTTTTATAGT TTTGGTGGAT TTTTAAAAAT | | | TGTCAAATNA | TTTAAGTAAT | 60 99 |
| 15 | SEQ ID NO:4328 SEQUENCE LENGTH:80 SEQUENCE TYPE:nucleic TOPOLOGY:linear CLONE:HUMGSO5145 | acid | | | | |
| 20 | SEQUENCE DESCRIPTION: GATCAGTTTT TATAGCATCT CTTTCAATGT CTCACTCAAA | ATGGACATAG | AAAATCAGTC | ACTGAAAAAA | ATAAACACAG | 60 80 |
| 25 | SEQ ID NO:4329 SEQUENCE LENGTH:263 SEQUENCE TYPE:nucleic TOPOLOGY:linear CLONE:HUMGS05147 | acid | | | | |
| 30 | SEQUENCE DESCRIPTION: GATCCAGAAT CACCAAGACC CTGGGACGTT GGTTCCGGTC CCACCTNTCA CCCATTGCCC TTGGATATGT GGAATAGTGA ATAAAACCTN NATTTATGNT | CCGGTAGCCT ACCATTAANA ACTGGGNCCA | TGTTAACCCT AGCTTAGCTG | CAGAGGCCTT NNTCTTGCCA | CAAGTCCTTT CCTCAGGGGC | 120 180 |
| 35 | SEQ ID NO:4330 SEQUENCE LENGTH:111 SEQUENCE TYPE:nucleic TOPOLOGY:linear | | | | | |
| 40 | CLONE: HUMGS05148 SEQUENCE DESCRIPTION: GATCCTAANN CTGACAAGAT TACCGTTTAT NGGTAGACAT | | | | | 60 111 |
| 45 | SEQ ID NO:4331 SEQUENCE LENGTH:264 | | | 20.2.30 | - | |
| 50 | SEQUENCE TYPE:nucleic TOPOLOGY:linear CLONE:HUMGS05149 | acid | | | | |

| | SEQUENCE DESCRIPTION: | | | | | |
|----|--|------------|--------------|---------------|------------|-----|
| • | GATCTGACCT GTTTATTGTT | GGCGCTTGTT | GAAAACGAGC | TTTCTTTCCC | ATGATAGTGC | 60 |
| | TTCGTTTTTG AAGTGTTGAA | | | | | |
| 5 | ATTACAACAC TCAGTTCTAT | GTCTTACAAG | CACTTTGTCT | TGTCTCTGCA | AGAAAATTCG | 180 |
| | ATNCCNGTCA TNTCCCATAA | AATACAGNCA | TTTTACCANC | ATANTATGCT | TTGATTGANG | 240 |
| | CAGCANTATG CTTTTGGGCA | GTAN | | | | 264 |
| 10 | SEQ ID NO:4332 | | | | | |
| | SEQUENCE LENGTH: 259 | | | | | |
| | SEQUENCE TYPE:nucleic | acid | | | | |
| | TOPOLOGY: linear | | | | | |
| 15 | CLONE: HUMGS05150 | | | | | |
| | SEQUENCE DESCRIPTION: | 0044074007 | 000117717171 | 0000000000000 | 0000000000 | |
| | GATCCTCCCG CCTCAGCCTC | | | | | |
| | CTAATTTTT AATTTTNGT CTCCCAGCCT CAAGCNATGC | | | | | |
| 20 | AGCACCATAC CTGGCGCATG | | | | | |
| 20 | CTGGGNTACC TGGGATGAN | UNINITITIN | AAUAU IACCC | ACIUUNGICI | MAINIMIC | 259 |
| | Olddwinee laddwidan | | | | | 239 |
| | SEQ ID NO:4333 | | | | | |
| 25 | SEQUENCE LENGTH: 250 | | | | | |
| | SEQUENCE TYPE: nucleic | acid | • | | | |
| | TOPOLOGY: linear | | | | | |
| | CLONE: HUMGSO5151 | | | | | |
| | SEQUENCE DESCRIPTION: | | | | | |
| 30 | GATCTAACCA ATTTGAATAT | | | | | |
| | ATAGCTGGTT TGGTTGTTAG | | | | | |
| | TAATAAGTAT TTATNGCATA | | | | | |
| | TCATAAAAAT AAAATCTGTA | AACCATAGGT | AATGATTATA | TAAAATACAT | AATATTTTTC | |
| 35 | AATTTTGAAA | | | | | 250 |
| | SEQ ID NO:4334 | | | | | |
| | SEQUENCE LENGTH: 260 | | | | | |
| | SEQUENCE TYPE:nucleic | acid | | | | |
| 40 | TOPOLOGY: linear | | | | | |
| | CLONE: HUMGS05152 | | | | | |
| | SEQUENCE DESCRIPTION: | | | | | |
| | GATCGCATTT ATATAACATT | | | | | |
| 45 | GGTTGCCAGG GATAGGGACT | | | | | |
| | CAAGGAGTTC CTTTGTGCTG | | | | | |
| | TTATAACATT TGATTATGAG | GTTAAGCACA | TGAGTCTTTA | CCTGTNCTGA | AGTTGTATGG | |
| | ACCTACATAC ACACAAATGN | | | | | 260 |
| 50 | SEQ ID NO:4335 | | | | | |
| | SEQUENCE LENGTH: 261 | | | | | |

| 5 | SEQUENCE TYPE:nucleic acid TOPOLOGY:linear CLONE:HUMGS05153 | |
|----|---|------------------|
| , | SEQUENCE DESCRIPTION: GATCAAGACG AGCCTGCACC GCCTGAAGCC CGACACGGTG CCAGCGCCCT GCTC CGCCAGCTAC AATCCCATGG TGCTCATTCA AAAGACCGAC ACCGGGGTGT CGCT | |
| | CTATGATGAC TIGITAGCCA AAGACTGCCA CTGCATATGA GCAGTCCTGG TCCT | |
| 40 | GTGCACCTGC GCGGGGAGG CGACCTCAGT TGTCCTGCCC TGTGGAATGG GCTC | |
| 10 | CCTGAGACAC CCGATTNCTG N | 261 |
| | SEQ ID NO:4336 SEQUENCE LENGTH:145 | |
| 15 | SEQUENCE TYPE: nucleic acid | |
| | TOPOLOGY: linear | |
| | CLONE: HUMGS05155 | |
| | SEQUENCE DESCRIPTION: | |
| 20 | GATCCTCAGT AAACTCTGAG AAATAATGAA TGTTGGTTGT TTTAAAATGG TAAA | TNTTGA 60 |
| | GGTATTATGT TATGTGGCAA TAGATAGCTA ATATATAACT NATTTGANTC AAAC | |
| | TTAANTTAAA GCNCAGAAGA NTAAA | 145 |
| | SEQ ID NO:4337 | |
| 25 | SEQUENCE LENGTH: 264 | |
| | SEQUENCE TYPE: nucleic acid | |
| | TOPOLOGY:linear | |
| | CLONE: HUMGS05157 | |
| 30 | SEQUENCE DESCRIPTION: | |
| | GATCTAAGGA AAGAAATGGA GCAACTAGTG CTTGACAAAA AGCAAGAGGA GACA | |
| | CTGGAAGAGG ATTCTGCAGA TTGGGAAAAA GAACTGCAGC AGGAACTTCA AGAA | |
| | GTGGTGACAG AATCTGAAAA ACGAGATGNN AACTGGGATA AGGAAATAGA GAAA | |
| 35 | CAAGAGGAAA ATTAGCTGTT CCTGAAATAG AAGAATAATC CTTAACAGTC TGCA. CATTAAATTC TAGATGTTGA CAAA | |
| | | 264 |
| | SEQ ID NO: 4338 | |
| 40 | SEQUENCE LENGTH: 109 | |
| 40 | SEQUENCE TYPE: nucleic acid | |
| | TOPOLOGY:linear CLONE:HUMGSO5158 | |
| | | |
| | SEQUENCE DESCRIPTION: GATCGGGGCG GGGAAACAGC NGGAAGANGG NCGCACCCGG TCTGACTACA ACAN | 701011 00 |
| 45 | AGAGTCCACT CGGCACGTGG TCCNGCGCGT GAGGGGGGGT GTCTAAGTN | CCAGAA 60 109 |
| | SEQ ID NO:4339 | |
| | SEQUENCE LENGTH: 195 | |
| 50 | SEQUENCE TYPE:nucleic acid | |
| | TOPOLOGY:linear | |

| 5 | CLONE:HUMGS05159 SEQUENCE DESCRIPTION: GATCAGTATA CAGTGTACGT AAACTACACC ATCCTCAAAC CCCGGAAAGC AAAGCAAATC AGGAAGAAAA GTGGAGGTTA GCAACACACC TNTGGCCCCA AAGNACAACC ATCTTGTTAA 1 CTATTGATTC CAGTGACCTG ACTCCCTGCA AGTCATCGNC TGTAACATTT GTAATAAAGG 1 TCTTCTGNCA TGAAA | 20 |
|----|---|----------|
| 10 | SEQ ID NO:4340 SEQUENCE LENGTH:54 SEQUENCE TYPE:nucleic acid TOPOLOGY:linear | |
| 15 | CLONE: HUMGS05160 SEQUENCE DESCRIPTION: GATCTAATAT TCAGGAATTT TTCTCCTAAA GACACCCAGT AAAAATATCA CAAA | 54 |
| 20 | SEQ ID NO:4341 SEQUENCE LENGTH:89 SEQUENCE TYPE:nucleic acid TOPOLOGY:linear | |
| 25 | | 60 89 |
| 30 | SEQ ID NO:4342 SEQUENCE LENGTH:89 SEQUENCE TYPE:nucleic acid TOPOLOGY:linear | |
| 35 | .m m | 60 89 |
| 40 | SEQ ID NO:4343 SEQUENCE LENGTH:102 SEQUENCE TYPE:nucleic acid TOPOLOGY:linear | |
| 45 | CLONE:HUMGS05163 SEQUENCE DESCRIPTION: GATCGTCTTG TATGGTGAAT TTTCTAGGAG CGATGATGTA CTGTAATTTT ATTTTAATGT 6 | 50 02 |
| 50 | SEQ ID NO:4344 SEQUENCE LENGTH:248 SEQUENCE TYPE:nucleic acid | |

| 5 | TOPOLOGY:linear CLONE:HUMGS05164 SEQUENCE DESCRIPTION: | | | | | |
|----|--|--------------------|------------|------------|--------------|-----|
| 3 | GATCAATTNT GCANCANACA | | | | | |
| | CACGTTTTAA AAACTTAAAC | | | | | |
| | ATTTTGCAGC AGGGTTGTGT | | | | | |
| | TTGCAGAGTA AGATGGAAAG TTCNGGNN | CCANTCAGIG | IIIGUNGIAA | IGIAAIACAG | NGTAGTGCCA | 240 |
| 10 | TTCMUUM | | | | | 240 |
| | SEQ ID NO:4345 | | | | | |
| | SEQUENCE LENGTH: 239 | | | | | |
| | SEQUENCE TYPE:nucleic | acid | | | | |
| 15 | TOPOLOGY: linear | | | | | |
| | CLONE: HUMGS05165 | | | | | |
| | SEQUENCE DESCRIPTION: | | | | | |
| | GATCCAAACT TCTACAGCAA | AAACTTACTT | CTTTTAGGAA | AGACATACTT | GAAACTACAC | 60 |
| 20 | AACAAAAGC TTGCTGCTTT | ${\tt CTGGCTAATG}$ | AAAGCCAAGG | ACTATCCAGC | ACACACAGAG | 120 |
| | GAGGATAAAC AGATACAGAC | AGAAGCTGCT | CAGTTGCTTA | CAAGTTTCAG | TGAGAAGANT | 180 |
| | TGAGAACTTT TCAGAGAAGA | TTTATGAAAT | AGCTAATAAA | CATTGCCTTT | TCTTTTAAA | 239 |
| | | | | | | |
| 25 | SEQ ID NO:4346 | | | | | |
| | SEQUENCE LENGTH: 223 | , | | | | |
| | SEQUENCE TYPE:nucleic | acld | | | | |
| | TOPOLOGY: linear | | | | | |
| 30 | CLONE: HUMGS05166 SEQUENCE DESCRIPTION: | | | | | |
| | GATCAAAAAA TGTCTCCGCT | CACCGATTTA | TOOTCOATTA | TTCCACACAN | TCCTAAAAAT | 60 |
| | ATAGAGCACA AGACAAGTTT | | | | | |
| | ATAAATTATC AAGATTTGTA | • | | | | |
| | AATTTCAATT TNGTTTTCAA | | | | 141000//4/14 | 223 |
| 35 | , | 0.2 | | | | |
| | SEQ ID NO:4347 | | | | | |
| | SEQUENCE LENGTH: 52 | | | | | |
| | SEQUENCE TYPE:nucleic | acid | | | | |
| 40 | TOPOLOGY: linear | | | | | |
| | CLONE: HUMGS05168 | | | | | |
| | SEQUENCE DESCRIPTION: | | | | | |
| | GATCATTTGT TTATTAAAAT | GTGTCCTATT | ACACAGTGAG | TTAACTCTCA | AA | 52 |
| 45 | | | | | | |
| | SEQ ID NO:4348 | | | | | |
| | SEQUENCE LENGTH: 334 | | | | | |
| | SEQUENCE TYPE: nucleic | acid | | | | |
| 50 | TOPOLOGY: linear | | | | | |
| | CLONE: HUMGS05169 | | • | | | |
| | SEQUENCE DESCRIPTION: | | | | | |

| | GATCCGAGCG ACCATGGTGG | CCCGGGTGTG | GTCGCTGATG | AGGTTCCTCA | TNAAGGGAAG | 60 |
|----|------------------------|------------|------------|------------|------------|-----|
| | TGTGGCTGGG GGCGCCGTCT | ACCTGGTGTA | CGACCAGGAG | CTGCTGGGGC | CCAGCGACAA | 120 |
| | GAGCCAGGCA GCCCTACAGA | AGGCTGGGGA | GGTGGTCCCC | CCNGCCATGT | ACCAGTTCAG | 180 |
| 5 | CCAGTACGTG TGTCAGCAGA | CAGGCCTGCA | GATACCCCAG | CTCCCAGCCC | CTNCAAAGAT | 240 |
| | TTTACTTTCC NATCCGTGAC | TCCTGGAATG | CAGGNATCAT | GGACGGTTGA | TGTCAGNTCT | 300 |
| | NNTNGGTGGC CCCTTTCAAA | GGGNCNGGTG | AGTN | | | 334 |
| | | | | | | |
| 10 | SEQ ID NO:4349 | | | | | |
| | SEQUENCE LENGTH: 146 | | | | | |
| | SEQUENCE TYPE: nucleic | acid | | | | • |
| | TOPOLOGY: linear | | | | | |
| | CLONE: HUMGS05170 | | | | | |
| 15 | SEQUENCE DESCRIPTION: | • | | | | |
| | GATCCATCAA ATTGAACAAT | CTGTTGTAAT | TTAAAATTTT | GGCCACTTTT | TTCAGATTTT | 60 |
| | ACATCATTCT TGCTGAACTT | CAACTTGAAA | TTGTTTTTTT | TTNCTTTTTG | GATGTGAAGG | 120 |
| | TGANCATTCC TGATNNNGGC | CTCNNN | | | | 146 |
| 20 | | | | | | |
| | SEQ ID NO:4350 | | | | | |
| | SEQUENCE LENGTH: 257 | | | | | |
| | SEQUENCE TYPE:nucleic | acid | | | | |
| | TOPOLOGY: linear | | | | | |
| 25 | CLONE: HUMGS05172 | | | | | |
| | SEQUENCE DESCRIPTION: | | | | | |
| | GATCTCAAGC CTCTTCTGAA | CCCCAGGCTT | TCTTGAGTCT | CCATATGAGC | ATTTGCCTCT | 60 |
| | GTGGGCACAA CTTCAAGTGT | CCTTTGTGAG | GAAATGTGCA | TCTCTGGNTG | GTGAACTTCC | 120 |
| 30 | ATCCCTCAGA GAGAAATAGA | AGCACAAATT | TGAAACAAGC | TGTCTGTCTG | NGNNNNNNCT | 180 |
| | TTATGTCTTG GAAACTTTAT | TTATCCATCC | AAGCTTTNTT | TTTTTTTAG | CCTTTNNGGG | 240 |
| | CAGGNAACCA TCCAGGN | | | | | 257 |
| | | | | | | |
| 35 | SEQ ID NO:4351 | | | | | |
| | SEQUENCE LENGTH: 73 | | | | | |
| | SEQUENCE TYPE: nucleic | acid | | | | |
| | TOPOLOGY:linear | | | | | |
| | CLONE: HUMGS05173 | | | | | |
| 40 | SEQUENCE DESCRIPTION: | | | | | |
| | GATCTGTCTA CTGAGAAGAC | CCAAATCTTG | GTTTCTAAAT | GCCATTCTTC | AATAAAAGGA | 60 |
| | ATTGGGTTTC AAA | | | | | 73 |
| | | | | | | |
| 45 | SEQ ID NO:4352 | | | | | |
| | SEQUENCE LENGTH: 73 | | | | | |
| | SEQUENCE TYPE:nucleic | acid | | | | |
| | TOPOLOGY: linear | | | | | |
| 50 | CLONE: HUMGS05174 | | | | | |
| 50 | SEQUENCE DESCRIPTION: | | | • | | |
| | GATCTCCTTC TCCNTCCTGT | CCTGTCCTTG | CCCCTCAGGA | CTGCTGGAAA | ATAAATCCTT | 60 |

| | TAAAATAGTG AAA | | | | | 73 |
|----|---|--------------------------|--------------------------|--------------------------|--------------------------|------------|
| 5 | SEQ ID NO:4353 SEQUENCE LENGTH:306 SEQUENCE TYPE:nucleic TOPOLOGY:linear | acid | | | | |
| 10 | CLONE:HUMGS05176 SEQUENCE DESCRIPTION: GATCCAAGCA GGGGGATGAA | | | | | 60 |
| 15 | CCCCTTCTCC TCAGGACCCC GGCCCCACCC CCAGGAAGCA CCCTTTGTGG GGTCAGGACA TGGCTTTTTG TCTGGGGCTG GGTAAA | TGGATGGGGA CAGAGTGGGN | TGAAGGCACA AGANGAGACT | GGCGTCTCCA GATGCAGGCC | ACCTCAGAGG TACCAGTNCC | 180 240 |
| 20 | SEQ ID NO:4354 SEQUENCE LENGTH:76 SEQUENCE TYPE:nucleic TOPOLOGY:linear | acid | | | | |
| 25 | CLONE:HUMGS05177 SEQUENCE DESCRIPTION: GATCAACTGG AACCTCTGTA CTACATCAGA CTGAAA | TCATGCGGCT | GAATTCCCTT | TTTCCTTTAC | TCAATAAAAG | 60 76 |
| 30 | SEQ ID NO:4355 SEQUENCE LENGTH:52 SEQUENCE TYPE:nucleic TOPOLOGY:linear | acid | | | | |
| 35 | CLONE:HUMGS05178 SEQUENCE DESCRIPTION: GATCAGGCTT TTAGGACCTA | GGAAACAAAT | AAAGAGGAAT | TTGTTGCTGA | AA | 52 |
| 40 | SEQ ID NO:4356 SEQUENCE LENGTH:268 SEQUENCE TYPE:nucleic TOPOLOGY:linear CLONE:HUMGS05180 | acid | | | | |
| 45 | SEQUENCE DESCRIPTION: GATCCTTATT CTAGCTACAA TCACAAGCTG ACTAAAAATC TTCAAATTAG ACCTCACACT AATCCCTNCT GCCCGGTCCT | TGCACTTTGG TTCTACTCAT | GCCAGCGCAG ATTCTAGTCA | GCAACAGTAA CTGGACCCAT | CTNTGACAGG CTGANTCAGT | 120 180 |
| 50 | AAAAGAGGGA TTTGCTANGA | | OTINUNUNIA | ILAIAUCAAU | INVAVANI | 268 |

55

SEQ ID NO:4357

| 5 | SEQUENCE LENGTH:114 SEQUENCE TYPE:nucleic TOPOLOGY:linear CLONE:HUMGS05181 SEQUENCE DESCRIPTION: | | CTACTTATCT | A T A CNCNC A T | CTACTTACAC | 60 |
|----|--|------------|------------|-----------------|------------|-----|
| | GATCTCAAAT ATAAATTTGA ATAGTTTTGT ATTTNCCTGT | | | | | 114 |
| 10 | SEQ ID NO:4358 SEQUENCE LENGTH:179 SEQUENCE TYPE:nucleic | acid | | | | |
| 15 | TOPOLOGY:linear CLONE:HUMGS05182 SEQUENCE DESCRIPTION: | 0014 | | , | | |
| | GATCTACACG TGTTGTTTTG | TTTTTNCTTT | ATTGATGCAC | GNATGCTTTT | GAACAGTAGA | 60 |
| | GNGAAATGCT AGACATGGAG | | | | | |
| 20 | AGAACACTGT AATGTGCCTT | GGAGCTTAGT | AACTNGTAAT | AAATTCAATN | GATATTAAA | 179 |
| 25 | SEQ ID NO:4359 SEQUENCE LENGTH:85 SEQUENCE TYPE:nucleic TOPOLOGY:linear | acid | | | | |
| | CLONE:HUMGS05183 SEQUENCE DESCRIPTION: GATCCTAAAT CCTATGTAGG | | TAGTGTATAT | TTGTGTCTTA | AAACAATTTT | 60 |
| 30 | GAAAGTNAAA AAAATATTTT | TTAAA | | | | 85 |
| 35 | SEQ 1D NO:4360 SEQUENCE LENGTH:194 SEQUENCE TYPE:nucleic TOPOLOGY:linear | acid | | | | |
| 40 | CLONE:HUMGS05184 SEQUENCE DESCRIPTION: GATCTNATTT TGAGATTAAA | | | | | 60 |
| 40 | CATTITGCAT TITTGAATCA TCATAGATTT NNTNTTCTTT GTTTCCCCGG NNNN | | | | | |
| 45 | SEQ ID NO:4361 SEQUENCE LENGTH:216 SEQUENCE TYPE:nucleic TOPOLOGY:linear | acid | | | | |
| 50 | CLONE: HUMGSO5185 SEQUENCE DESCRIPTION: GATCTGCTGT ATGTTACAGT | TATGTAATTT | GACTTGTTTC | AAAATTATTA | AAGTTTTAAG | 60 |

| | TGTATGCATT CTACTGGTCA | ATAAGTAAAT | ATATTCAGGC | TCTGAATGTA | GACAGATAAA | 120 |
|----|---|------------|------------|------------|---------------------|-----|
| | TATATAAATA TAGAAAGTAC | ATTTGTTAGA | ATACAAACAA | GAATAAAAAT | TGAGTACAGA | 180 |
| | NTGAAAACCT TATTAAATTT | TATCACTCCA | TATAAA | | | 216 |
| 5 | | | | | | |
| | SEQ ID NO:4362 | | | | | |
| | SEQUENCE LENGTH: 333 | | | | | |
| | SEQUENCE TYPE: nucleic | acid | | | | |
| 10 | TOPOLOGY:linear | | | | | |
| | CLONE: HUMGS05186 | | | | | |
| | SEQUENCE DESCRIPTION: | | | | | |
| | GATCAAACTC AAGCTCACAC | | | | | 60 |
| | TTCCCAGTGT AAACGCAGTT | | | | | |
| 15 | AAAACCAGCT TTNTTCTATA | | | | | |
| | AAAGGAAAGT CTACATTTTC | | | | | |
| | TATTTNCCTT GGTATGTTTT | | | CCGAAAATAT | TGCCAATTGG | 300 |
| | ATANGGTTAG CCTTANNAAG | TNNAATAAAN | NAN | | | 333 |
| 20 | | | | | | |
| | SEQ ID NO:4363 | | | | | |
| | SEQUENCE LENGTH: 185 | | | | | |
| | SEQUENCE TYPE:nucleic | acid | | | | |
| 25 | TOPOLOGY: linear | | | | | |
| 20 | CLONE: HUMGS05187 | | | | | |
| | SEQUENCE DESCRIPTION: | | | | | |
| | GATCAGCCAG TCTCTTTCAT | | | | | 60 |
| | ACAAAATGTC TCTATATCAG | | | | | |
| 30 | AAATCAATTC TGTGAGTCAC | AATGAACATT | TGTCTAAAAA | ACATAATAAA | NTGTAAAATA | |
| | CCAAA | | | | | 185 |
| | 070 77 30 4004 | | | | | |
| | SEQ ID NO:4364 | | | | | |
| 35 | SEQUENCE LENGTH: 108 | | | | | |
| | SEQUENCE TYPE: nucleic | acid | | | | |
| | TOPOLOGY: linear | | | | | |
| | CLONE: HUMGSO5188 SEQUENCE DESCRIPTION: | | | | | |
| 40 | | CCCALCATOR | ********* | 0101010110 | 0 LOWER 0 COM | 60 |
| 40 | GATCCTTTCC CATTTATTCT TTTNTAAGAC AAACGATGAT | | | | GACIIIGGII | |
| | IIIWIAAAC AAACGAIGAI | ATGAAGGCCT | IIIUIAAGAA | AAAATAAA | | 108 |
| | SEQ ID NO:4365 | | | | | |
| | SEQUENCE LENGTH: 201 | | | | | |
| 45 | SEQUENCE TYPE:nucleic | aaid | | | | |
| | TOPOLOGY: linear | aciu | | | | |
| | CLONE: HUNGS05190 | | | | | |
| | SEQUENCE DESCRIPTION: | | | | | |
| 50 | GATCATTTGG CTCTTTTTT | CCTTCC1C11 | CACTNOCATO | ***** | ልጥጥር ም ልጥጥ ል | £0 |
| | TGTATGTAAA TAGATTTWAA | | | | | ••• |

| | NCAATGTGNT TGTGTGTGTT TGAAAATGCT TCTTTCTACT | | TTTTCTTNGG | NTTGCTAAAT | ACTGTAGGGT | 180 201 |
|----|---|--------------------------|------------|------------|------------|------------|
| 5 | SEQ ID NO:4366 SEQUENCE LENGTH:118 SEQUENCE TYPE:nucleic TOPOLOGY:linear CLONE:HUMGS05191 | acid | | | | |
| | SEQUENCE DESCRIPTION: GATCCTTCAT GGACANTATT TTATATTAAA TGAGTGCTAT | | | | | 60 118 |
| 15 | SEQ ID NO:4367 SEQUENCE LENGTH:277 SEQUENCE TYPE:nucleic TOPOLOGY:linear | acid | | | | |
| 20 | CLONE:HUMGS05192 SEQUENCE DESCRIPTION: GATCTGAGGT CTCAAGCTAG GACTGAATCA CATCTGTAGT | | | | | 60 120 |
| 25 | GGAAGTAGCT ACTTCCTGNT GTTATAATTT TNTTGAATAT GNGTCGCAGN TATTCAATAA | CAGCCTTCTG | GNAGTAGCNA | | | |
| 30 | SEQ ID NO:4368 SEQUENCE LENGTH:209 SEQUENCE TYPE:nucleic TOPOLOGY:linear CLONE:HUNGSO5194 | acid | | | | |
| 35 | SEQUENCE DESCRIPTION: GATCTCTTGA CAANTGTGTA AAAACCCAGC TTTCATCTTT CAGTGTCCTA TAGAAAATGC AATTAAAACA TCTTAATCCA | TGTCTGTATG CATTAATAAA | AGGTCAATAT | TGATGTCACT | GAATTAATTA | |
| 40 | SEQ ID NO:4369 | | | | | |
| 45 | SEQUENCE LENGTH:58 SEQUENCE TYPE:nucleic TOPOLOGY:linear CLONE:HUMGSO5195 SEQUENCE DESCRIPTION: GATCGTGTCG GAGACTNTNA | | ACACATCAAT | AAATACTTTA | ACTTCAAA | 58 |
| 50 | SEQ ID NO:4370 SEQUENCE LENGTH:108 | | | | | |

| | SEQUENCE TYPE:nucleic TOPOLOGY:linear CLONE:HUMGS05196 | acid | | | | |
|----|---|------------|------------|------------|------------|-----------|
| 5 | SEQUENCE DESCRIPTION: GATCGAGGTA GTAAAGGCCA TTGCTTTCAG AAAATGTTTT | | | | TATAATNCGT | 60 108 |
| 10 | SEQ ID NO:4371 SEQUENCE LENGTH:190 SEQUENCE TYPE:nucleic TOPOLOGY:linear | acid | | | | |
| 15 | CLONE:HUMGS05197 SEQUENCE DESCRIPTION: GATCAAACAG GGACACAAAA | | | | | 60 |
| 20 | AGAAGCTGAC TTCAACTCTN AGATACACAC AAATGTCTAT GAAGAAAATN | | | | | |
| 25 | SEQ ID NO:4372 SEQUENCE LENGTH:241 SEQUENCE TYPE:nucleic | acid | | | | |
| | TOPOLOGY:linear CLONE:HUMGSO5198 SEQUENCE DESCRIPTION: GATCAATCCC TAGTAAAAGC | CCTGGACACC | TAGGCATGGG | TGAGCTACTN | TGGTTGGTAA | 60 |
| 30 | TACTCTGTGC ACACATCATT GAAGACTCTG CCAGGAGAGG NTTCATTGCT GATTTTAATC A | ATAATTGGAA | GTTCTCTTGG | ACCTTACCTT | ATGTGCCTTT | 180 |
| 35 | SEQ ID NO:4373 SEQUENCE LENGTH:51 SEQUENCE TYPE:nucleic TOPOLOGY:linear | acid | | | | |
| 40 | CLONE: HUMGSO5199 SEQUENCE DESCRIPTION: GATCGTTCAT TGCCTTTCCA | GGGTTATTTA | GTAAAGTTTG | TTGAAAACAA | A | 51 |
| 45 | SEQ ID NO:4374 SEQUENCE LENGTH:153 SEQUENCE TYPE:nucleic TOPOLOGY:linear | acid | | | | • |
| 50 | CLONE:HUMGS05200 SEQUENCE DESCRIPTION: GATCTCAGGT GATTCACCCG | CTTCTGCCTC | CCAAAGTGCT | AGGATTACAG | ACATGAGCCA | |

| | CCCCATGTTA TTAAAAAAT | | | TTAATATGAC | ATTTGTATTT | 120 153 |
|----|---|--|--|--|--|--------------------------|
| 5 | SEQ ID NO:4375 SEQUENCE LENGTH:103 SEQUENCE TYPE:nuclei TOPOLOGY:linear CLONE:HUMGS05201 SEQUENCE DESCRIPTION | | | | | |
| | GATCACCCCA CCCTGTGAA AGGGTTTTCC TAGTAATAA | G AGGCAGTTGG | | | сстсстстсс | 60 103 |
| 15 | SEQ ID NO:4376 SEQUENCE LENGTH:390 SEQUENCE TYPE:nuclei TOPOLOGY:linear | c acid | | | | |
| 20 | CLONE: HUMGS05203 SEQUENCE DESCRIPTION GATCACATTC ATTCCATAG | G TAGCTTTACG | | | | 60 |
| 25 | CATTGTCTTT CCATGAAAC TTTTGTTTAT GCATTTCCT AATACAATTT TAGAATGTA TTGAATGTCT TNTTATTTT CATTAACATT TATCCATAT | T AAANTTAATT A TATATAGAGG A NNTTTTACAT G CCTTTGCAAT | GTAGTCTCNA TATATTTAGC TCATTAAGGT ANCTAGNTTG | GGATACAAAC CTCTTTTAGA GCCTCGTTTT | CATAGTAGGC AGTCAGTGGA TGACTTTGTC | 180 240 300 360 |
| 30 | TGTAACCANT AATCCNTTG | T TTNGNGGTGN | | | | 390 |
| 35 | SEQ ID NO:4377 SEQUENCE LENGTH:144 SEQUENCE TYPE:nuclei TOPOLOGY:linear CLONE:HUMGS05204 SEQUENCE DESCRIPTION | | | | | |
| 40 | GATCACATGC AGGACTCTT GATTTCCAGG TTTTATTGA TATAATAAAT ATTACAATA | A TAAATGAATT | | | | 60 120 144 |
| 45 | SEQ ID NO:4378 SEQUENCE LENGTH:386 SEQUENCE TYPE:nuclei TOPOLOGY:linear CLONE:HUMGS05205 SEQUENCE DESCRIPTION | | | | | |
| 50 | GATCCCACAG CGAAACACT CCTTAAAGGA AATTGTAGC | G GCCACTGGCT C TAAGTAGGTC | GTGGCAAGGG | CCTGAGGCCT | GTTCCTCACA | |

| 5 | TTCTTAGATT CCTCTCCCAG AAGGCCGTAA TCTCATCAGG CAGTTTGGTT TCTCTACATG GAATGNTCTG CAGTTTTAGG | TTGGGACATT TNCTGCAGCT | AATCTTTTCA | ACTCCTTTGT | AAAGATTTCC | 300 |
|----|--|--------------------------|------------|------------|------------|------------|
| 10 | SEQ ID NO:4379 SEQUENCE LENGTH:174 SEQUENCE TYPE:nucleic TOPOLOGY:linear CLONE:HUMGS05206 | acid | | | , | |
| 15 | SEQUENCE DESCRIPTION: GATCTAAACG AAAAATAGTT TGACAAGATA CGTATAAACA TATAAAGAAC CCATGATGTT | TTGGTTTGCA | TTTTATTAAA | TNATTCTAAT | GCAAATCTTG | |
| 20 | SEQ ID NO:4380 SEQUENCE LENGTH:207 SEQUENCE TYPE:nucleic TOPOLOGY:linear | acid | | | | |
| 25 | CLONE:HUMGS05207 SEQUENCE DESCRIPTION: GATCTTGGTC AATAACTGGG GAAGACTAAA ATCTATTCAG ACAATAAAGT GAAAATCAAC AGATGACAAG TCAGTTGTCA | TAGAAGCTCT CTTTTCATAT | TCCTGTTGCT | GCTGTAAATG | TGCAAAGCAC | 120 |
| 30 | SEQ ID NO:4381 SEQUENCE LENGTH:189 SEQUENCE TYPE:nucleic TOPOLOGY:linear | acid | | | | |
| 35 | CLONE: HUMGS05208 SEQUENCE DESCRIPTION: GATCAGCACC TTGGCCGTGA GTTTAAACAG ACATGTCTTT | | | | | 60 120 |
| 40 | TAGCTTTGNT GAAAGCTATG | NNGGTATCTT | TCCCTAATCA | TCAAAGTAAA | TAAAAANTCA | 180 189 |
| 45 | SEQ ID NO:4382 SEQUENCE LENGTH:502 SEQUENCE TYPE:nucleic TOPOLOGY:linear CLONE:HUMGS05209 SEQUENCE DESCRIPTION: | acid | | | 4 | |
| 50 | GATCTGTTCT TTTTAAGTTG CATCTTGAAG AGCTCAAAGC | | | | | |

| | ATCCAATCTC ACTCCCCTTG | TAAGGGAATT | CTGGGGCAGC | TATGGTTTGA | GTATGCAGTT | 180 |
|----|------------------------|------------|------------|------------|------------|-----|
| | TGCATCGTGT TTCTACCTTT | AGTACCTTGC | CACTCTTTTA | AAACGCTGCT | GTCATTTCCC | 240 |
| | ATTTCTTAGT ACTAATGATT | CTTTGATTCT | CCCTCTATTA | TGTCTTAATT | CACTTTCCTT | 300 |
| 5 | NCCTAAATTT GGTGATTTGG | CATATCAAAT | TCTGGTAAAA | TNGTTTTNGG | TAAANCATAT | 360 |
| | TTACCCNCAC TTGGGGTAAA | TCCCAATTCC | TGGNTAGGGN | CTTTTAAAAA | NGGGTTTTTN | 420 |
| | NTTAATNGGG NNAATCCAAT | TATTAAAAAN | GGGGGGNCCN | TTTTTTNAAG | GGNGGAANAA | 480 |
| | ANGGNGAGGG GGNAGNTNGN | GN | | | | 502 |
| 10 | | | | | | |
| | SEQ ID NO:4383 | | | | | |
| • | SEQUENCE LENGTH: 383 | | | | | |
| | SEQUENCE TYPE: nucleic | acid | | | | |
| | TOPOLOGY:linear | | | | | |
| 15 | CLONE: HUMGS05210 | | | | | |
| | SEQUENCE DESCRIPTION: | | | | | |
| | GATCTCTGGT CAGAGTGAAC | TCTTGCTTCC | TGTATTCAGG | CAGCTCANAG | CAGAAAGTAA | 60 |
| | GGGGCAGAGT CATACGTGTG | GCCAGGAAGT | AGCCAGGGTG | AAGAGAGACT | CGGTGCGGGC | 120 |
| 20 | AGGGAGAATG CCTGGGGGTC | CCTCACCTGG | CTAGGGAGAT | ACCGAAGCCT | ACTGTGGTAC | 180 |
| | TNAAGACTTC TGGGTTCTTN | CCTTCTGCTA | ACCCAGGGAG | GGTCCTAAGA | GGAAGGTGAC | 240 |
| | TTCTCTCTGT TTGTCTTAAG | TTGCACTGGG | GGATTTCTGA | CTTGAGGCCC | ATCTNTCCAG | 300 |
| | CCAGCCACTG CCTTCTTTGT | AATATTAAGT | GCCTTGAGCT | GGAATGGGGA | AGGGGGNCAA | 360 |
| 05 | GGGTCAGTCT NTCGGGGTNG | GNN | | | | 383 |
| 25 | | | | | | |
| | SEQ ID NO:4384 | | | | | |
| | SEQUENCE LENGTH: 258 | | | | | |
| | SEQUENCE TYPE: nucleic | acid | | | | |
| 30 | TOPOLOGY:linear | | | | | |
| | CLONE: HUMGS05211 | | | | | |
| | SEQUENCE DESCRIPTION: | | | | | |
| | GATCAAACTG TTGGAGGAGA | AGCTGAAGGA | GGCTGAGACC | CGAGCAGAGT | TTGCCGAGAG | 60 |
| 35 | GTCTGTGGCA AAGTTGGAGA | AANCCATCGA | TGACCTAGAA | GAGACCTTGG | CCAGTGCCAA | 120 |
| | GGAGGAGAAC GTCGAGATTC | ACCAGACCTT | GGACCAGACC | CTGCTGGAAC | TCAACAACCT | 180 |
| | GTGAGGGCCA GCCCCACCCC | CAGCCAGGCT | ATGGTTGCCA | CCCCAACCCA | ATAAAACTGN | 240 |
| | TGTTACTAGN CTNTNAAA | | | | | 258 |
| | | | | | | |
| 40 | SEQ ID NO:4385 | | | | | |
| | SEQUENCE LENGTH: 174 | | | | | |
| | SEQUENCE TYPE: nucleic | acid | • | | | |
| | TOPOLOGY:linear | | | | | |
| 45 | CLONE: HUMGS05212 | | | | | |
| | SEQUENCE DESCRIPTION: | | | | | |
| | GATCAATGAA AGGAGACATC | | | | | |
| | GATTGGAAAA AGCACCGCAG | ATGGGAACCT | TAATCTTTCT | TTTCTAAAAT | TGATGCTATG | 120 |
| 50 | AAAATTTGCG TTTTCTGTAA | CTTGTAAAAA | CTAAAAGTTG | CTTGTCTACT | GAAA | 174 |
| 50 | | | | | | |
| | SEQ ID NO:4386 | | | | | |

| 5 | SEQUENCE LENGTH:62 SEQUENCE TYPE:nucleic TOPOLOGY:linear CLONE:HUMGS05213 SEQUENCE DESCRIPTION: GATCAGGCAA AAATAGTTTT AA | | ТТТТААТААА | GTATATACAA | AATTCTTATA | 60 62 |
|------|--|--------------------------|--------------------------|------------|------------|----------|
| 10 | SEQ ID NO:4387 SEQUENCE LENGTH:217 SEQUENCE TYPE:nucleic TOPOLOGY:linear | acid | | | | |
| 15 | CLONE: HUMGS05214 SEQUENCE DESCRIPTION: GATCTAACGC CACACCTCCG | TGAAAACACA | ANTONCACAG | CAGGAACCAC | NTGAACCTGG | 60 |
| 20 | ACATCAGCAG TTTATTCAGC GANTCCAGAN GTCAGATTTC CCGNGAAGCA AACTTGCAAG | AGATGETTEA AGEAACAACT | GGCTCTTNCT GGAACAACTC | GGAGTAAATC | CTCAGCTACA | 120 |
| 25 | SEQ ID NO:4388 SEQUENCE LENGTH:95 SEQUENCE TYPE:nucleic TOPOLOGY:linear CLONE:HUMGS05215 | | | | | |
| 30 | SEQUENCE DESCRIPTION: GATCTATGCA GACAACTGTG TAAAAAATTT AAATATATTT | | | TGTTTGAATT | TACTTACAGT | 60 95 |
| 35 | SEQ ID NO:4389 SEQUENCE LENGTH:192 SEQUENCE TYPE:nucleic TOPOLOGY:linear CLONE:HUMGS05216 | acid | | | | |
| 40 . | SEQUENCE DESCRIPTION: GATCTGGGTG AAGGGGAGAA ATTTTCTTGT TGAAGAAACA AAATTACCTA ACTGTTCCCC TTAAAAATGA AA | CAAAACCCTC | GAGATTCATG | TACTGTATGT | TGGAGAAAA | |
| 45 | SEQ ID NO:4390 SEQUENCE LENGTH:135 | | | | | |
| 50 | SEQUENCE TYPE:nucleic TOPOLOGY:linear CLONE:HUMGS05217 SEQUENCE DESCRIPTION: | acid | | | | |

| | GATCTGCAGC CTTTTGGGTA | TCAAATGGGT | CAAAACCATG | GGACCTGCCA | CCTCCCATCA | 60 |
|----|------------------------|------------|------------|------------|------------|-----|
| | GCAATTCTGG AAATGCACTA | TTTCTACTGG | TGNTCTTGCT | TTTTTTTTT | TTNNATTTTC | 120 |
| | TNGNTGAANT GCCAN | | | | | 135 |
| 5 | | | | | | |
| | SEQ ID NO:4391 | | | | | |
| | SEQUENCE LENGTH: 270 | | | • | | |
| | SEQUENCE TYPE: nucleic | acid | | | | |
| 10 | TOPOLOGY: linear | | | | | |
| 10 | CLONE: HUMGS05218 | | | | | |
| | SEQUENCE DESCRIPTION: | | | | | |
| | GATCGTANTT AGTCCTTTTC | ATCTCAGCTG | CTCCTTAAAT | CAGTGCAACC | CCTCCAAATT | 60 |
| | AATGTGAATT GAAACTTGCA | TTGCTTTTCA | ACTTAATTGA | ATACTTACTA | TATGTGAACC | 120 |
| 15 | ACTGCACAAA ATAGGGGAAG | AAGATGTGGG | AGACAAAGAT | GTGGAGCCTG | TCTTCAATAA | 180 |
| | ATTTACAGTT AGTTTCAGGG | TACATTGTTT | TNCTNCTGCT | GTTAATTAGG | TGTATCCCCA | 240 |
| | AGACAATAAA TACATGGNTG | GGAAAGTAAA | | | | 270 |
| | | | | | | |
| 20 | SEQ ID NO:4392 | | | | | |
| | SEQUENCE LENGTH: 123 | | | | | |
| | SEQUENCE TYPE:nucleic | acid | | | | |
| | TOPOLOGY:linear | | | | | |
| | CLONE: HUMGS05219 | | | | | |
| 25 | SEQUENCE DESCRIPTION: | | | | | |
| | GATCAAAATT GGNTAAATTC | TATTGTAACA | ATTTCGTTGG | TCATTTTGGG | CCATAAAATT | 60 |
| | TTTTTGTAAT AGGAATTTGT | | | | | |
| | AAA | | | | | 123 |
| 30 | | | | | | |
| | SEQ ID NO:4393 | | | | | |
| | SEQUENCE LENGTH: 288 | | | | | |
| | SEQUENCE TYPE:nucleic | acid | | | | |
| 05 | TOPOLOGY: linear | | | | | |
| 35 | CLONE: HUMGS05220 | | | | | |
| | SEQUENCE DESCRIPTION: | | | | | |
| | GATCNCACCA GTNTNCTNCA | NCCTGGGCCA | CAGAGCAAGA | CCTTGACTCA | AAAACAACAA | 60 |
| | CAACAACAAC AAAAATTCTT | GAAGATTTTG | CATTCTGTCC | CACTATCCAT | TGGTTTTCAT | 120 |
| 40 | GTCAAGATAA TGTGAGAAAT | TCTTTACAAT | TGCTTCCAGA | AGGANTAGCC | TTTTGATTTA | 180 |
| | GTGCACAGGT GTCCAGTCTT | TTGGCTTCTC | AGGCCCACAT | TGGAAGAAGA | ATGCTCCTGA | 240 |
| | GCCACACATA AAATACACTA | NTGNTAACAA | CAGCTGATGG | AGCTTAAA | | 288 |
| | | | | | | |
| 45 | SEQ ID NO:4394 | | | | | |
| | SEQUENCE LENGTH: 156 | | | | | |
| | SEQUENCE TYPE:nucleic | acid | | | | |
| | TOPOLOGY: linear | | | | • | |
| | CLONE: HUMGS05221 | | | | | |
| 50 | SEQUENCE DESCRIPTION: | | | | | |
| | GATCCTNCGT TCTNTTGTTA | TAGATTAGTT | TGCGTTTCCT | ACAATTTTAT | ACACATGGAA | 60 |

| | TAATACTATA GGTACTCTTG | | | ATAATAAGTT | TGAGATTCAT | 120 156 |
|----|--|-------------|------------|------------|------------|------------|
| | NCATGTTGTT ATATGCGTCT | AIGITCATTC | CINNNN | | | 190 |
| 5 | SEQ ID NO:4395 | | | | | |
| | SEQUENCE LENGTH: 149 | | | | | |
| | SEQUENCE TYPE:nucleic | acid | | | | |
| | TOPOLOGY:linear CLONE:HUMGS05223 | | | | | |
| 10 | SEQUENCE DESCRIPTION: | | | | | |
| | GATCCTNCTT TTCCTTCATG | NCAGCACAAG | TGCTCACCGG | GGCCAGAGCC | AGGGCATGGA | 60 |
| | TATGACAAGC AGGGCAGCCT | GGACACTGCC | CTCACAGGAC | AGCGCCAATA | ACAATACAGT | 120 |
| 15 | GTCTGAGTAT CTCCAGGGGA | AAAATAAA | | | | 149 |
| 15 | SEQ ID NO:4396 | | | | | |
| | SEQUENCE LENGTH: 204 | | | | | |
| | SEQUENCE TYPE:nucleic | acid | | | | |
| 20 | TOPOLOGY: linear | | | | | |
| | CLONE: HUMGS05224 | | | | | |
| | SEQUENCE DESCRIPTION: GATCCTGCTT GGNCTATCAC | AGAGCATTGA | | CCCTCATCTG | AGNOGTOGGA | 60 |
| | GAGCANACTG GATAGATGAG | | | | | ••• |
| 25 | ACAGINCTAC ATCTGCACCT | | | | | |
| | ACTGGACTTT TTGCNAGTNN | CTAN | | | | 204 |
| | SEQ ID NO:4397 | | | | | |
| 30 | SEQUENCE LENGTH: 213 | | • | | | |
| | SEQUENCE TYPE:nucleic | acid | | | | |
| | TOPOLOGY:linear | | | | | |
| | CLONE: HUMGS05227 | | | | | |
| 35 | SEQUENCE DESCRIPTION: GATCCTGATG TATGAGGAAA | AAGCGAGAGA | AAAGGAAANG | CCAACAGGCC | CCCCAGCCAA | 60 |
| | GAAAGCTATC TNTGAGTTGC | | | | | |
| | TTCTAATGNC CCAGATATGG | AAACAGAAGA | CAAANTTNTA | AGCCAGAGTC | AACAAATTAA | |
| 40 | NTAAATTACC CCCTCCTCCA | ANAANTANTT | TNN | | | 213 |
| 40 | SEQ ID NO:4398 | | | | | |
| | SEQUENCE LENGTH: 67 | | | | | |
| | SEQUENCE TYPE:nucleic | acid | | | | |
| 45 | TOPOLOGY: linear | | | | | |
| | CLONE: HUNGS05228 | | | | | |
| | SEQUENCE DESCRIPTION: GATCCATCTG AGGAATCACT | CTGTGTTGCA | CTTATGCCCT | CATAAAANAT | ATTTATTGAA | 60 |
| | GAATAAA | 21213110011 | | | | 67 |
| 50 | | | | | | |
| | CEU ID NU-1300 | | | | | |

| 5 | SEQUENCE LENGTH: 70 SEQUENCE TYPE:nucleic TOPOLOGY:linear CLONE:HUMGS05229 SEQUENCE DESCRIPTION: GATCAATGCA TTTNATACGG CACATGCAAA | | AGGGCTCTGG | AGGGTGGGGN | ATTGTTAAAA | 60 70 |
|----|---|--------------------------|------------|------------|------------|------------|
| 10 | SEQ ID NO:4400 SEQUENCE LENGTH:148 SEQUENCE TYPE:nucleic | acid | | | | |
| 15 | TOPOLOGY:linear CLONE:HUMGSO5230 SEQUENCE DESCRIPTION: GATCTCTATA GAGGCTGGAA | TGGCCACAGA | GAATCTAAAT | NTGAAAACAA | ACATGTCCTG | 60 |
| 20 | AGGGTGTGCT CCAATACCAC ATGCCATNTT ATTGTNACTT | | TCTCCTGAGA | TGTGAAGGCT | NGAAATGAGA | 120 148 |
| 25 | SEQ ID NO:4401 SEQUENCE LENGTH:210 SEQUENCE TYPE:nucleic TOPOLOGY:linear CLONE:HUMGS05231 | acíd | | | | |
| 30 | SEQUENCE DESCRIPTION: GATCCTTGTT TTGAGCTCTC TTCTACATAC ACCTTATAAA AGAAGGTGGC ACTCTGTGGC AGCAATAAAG TACAGTAATT | GTGACATTTC TCCNTGTAGT | AAAAGAAATA | AGGTGCCACA | GTTTTAAACC | |
| 35 | SEQ ID NO:4402 SEQUENCE LENGTH:71 SEQUENCE TYPE:nucleic | acid | | | | |
| 40 | TOPOLOGY:linear CLONE:HUMGS05232 SEQUENCE DESCRIPTION: GATCCTGTTG CAAACTGTGA GGGTCCTCAA A | ATATTCTGAT | GATGCCAGTA | CAGTTTGATT | TATTAAATGT | 60 71 |
| 45 | SEQ ID NO:4403 SEQUENCE LENGTH:240 SEQUENCE TYPE:nucleic TOPOLOGY:linear | acid | | | | |
| 50 | CLONE: HUMGS05233 SEQUENCE DESCRIPTION: GATCTGAACC CGTCTCCCGG | GTGCTGTAAA | TAGTCTGATA | AACGTTCACA | CAGTCTAAAA | . 60 |

| | TTACCCTTTA TATTTGCTGA | | | | | |
|----|---------------------------------------|-----------------------|--------------|--------------------|-----------------|-----|
| | GGAGCTAGCT GTGAGTTTCT | | | | | |
| _ | GAGTAGGGAA TAAATAAATC | TGATGCNGCC | TCCTGAGGCT | GCCGGGGGGT | TTCTGCTAAA | 240 |
| 5 | | | | | | |
| | SEQ ID NO:4404 | | | | | |
| | SEQUENCE LENGTH: 67 | | | | | |
| | SEQUENCE TYPE:nucleic | acid | | | | |
| 10 | TOPOLOGY: linear | | | | | |
| | CLONE: HUMGS05234 | | | | | |
| | SEQUENCE DESCRIPTION: | | | | | |
| | GATCAAGNAT ATTTTTATT | TTTAAGAAAG | CATAACCAGC | AATAAAAATA | CTATTTTTGA | 60 |
| 15 | GTCTAAA | | | | | 67 |
| 15 | | | | | | |
| | SEQ ID NO:4405 | | | | • | |
| • | SEQUENCE LENGTH: 173 | | | | | |
| | SEQUENCE TYPE: nucleic | acid | • | | | |
| 20 | TOPOLOGY: linear | | | | | |
| | CLONE: HUMGS05235 | | | | | |
| | SEQUENCE DESCRIPTION: | | | | | |
| | GATCTAATTC CAAGGACTTC | | | | | 60 |
| 25 | TTTGGACAGA ACAGAGTATT | | | | • | 120 |
| | CACCACTITC TATGCCAGIN | TCCCATTTAT | GTCCCTAGTA | ATGCCTATGC | AAA | 173 |
| | CDO ID NO 4400 | | | | | |
| | SEQ ID NO:4406 | | | | | |
| | SEQUENCE LENGTH: 263 | . , | | | | |
| 30 | SEQUENCE TYPE:nucleic | acid | | | | |
| | TOPOLOGY: linear | | | | | |
| | CLONE: HUMGS05236 | | | | | |
| | SEQUENCE DESCRIPTION: | 6 70 100 0 100 | | | | •• |
| 35 | GATCCCAGCA GTGATGTTGG | | | | | |
| | ACAGCATTGG TCCCAGAGCC | | | | | |
| | AGGGAGAGGT CGTGAGGCCA | | | | | |
| | GACCTCAGAG GTGACACCCA | | CCGGCATGCC | CCCAGTTACT | | |
| 40 | CCCCCAGTGG GCATGGAGCC | AAA | | | | 263 |
| | CEO ID NO. 4407 | | | | | |
| | SEQ ID NO:4407 | | | | | |
| | SEQUENCE LENGTH: 65 | | | | | |
| | SEQUENCE TYPE:nucleic TOPOLOGY:linear | acid | | | | |
| 45 | CLONE: HUMGS 05237 | | | | | |
| | SEQUENCE DESCRIPTION: | | | | | |
| | | ጥር ነ ርጥ ፣ ርጥም ፣ | ODWWW + BW + | TO 1 O TO 1 O TO 1 | M + OPPR + OO + | ^^ |
| | GATCAGAATG TTCTAAATNT GTAAA | IGACIAGTTA | CITTITATIA | LUAUTTAATA | IAGTTTAGCA | 60 |
| 50 | UIAAA | | | | | 65 |
| | SEU ID NO-4408 | | | | | |

| 5 | SEQUENCE LENGTH: 124 SEQUENCE TYPE: nucleic acid TOPOLOGY: linear CLONE: HUMGSO5238 SEQUENCE DESCRIPTION: | |
|----|--|----|
| 10 | GATCTCTATA TTAAATNCTA AAATGGGATT AAAAGAAGAG TTGGAGAATT CACACTTATT GAGTAACTGA TGTCATACAA CCTGGAATTT CTGAATTCCA AATAAATAAA TTTCACTCTT 1 | |
| 15 | SEQ ID NO:4409 SEQUENCE LENGTH:234 SEQUENCE TYPE:nucleic acid TOPOLOGY:linear CLONE:HUMGS05239 | |
| 20 | ACTACAAATG GAGATGGCTA TTATGAAACA GCATGAGCAT GAGCCTTTNA TCTNTNATAC 12 TTAGTGATAT ACTTTGCTTG AAAATCACTC AGCAAAGTAG TTCACATGAT GTGTTATCAT 18 | 80 |
| 25 | SEQ ID NO:4410 SEQUENCE LENGTH:191 SEQUENCE TYPE:nucleic acid | 34 |
| 30 | TOPOLOGY:linear CLONE:HUMGS05240 SEQUENCE DESCRIPTION: GATCTNTTTG TATGTNACGT GTTAAGGGCT TGTTTGGTAT CCCACTGAAA TGTTCTGTGT 6 | 60 |
| 35 | TGCAGACCAG AGTCTGTTTA TGTCAGGGGG ATGGGGCCAT TGCATCCTTA GCCATTGTCA 12 CAAAATATGT GGAGTAGTAA CTNAATATGT AAAGTNGTAA CATACATACA NTTAAAATGG 18 ANATGCAGAA A | 30 |
| | SEQ ID NO:4411 SEQUENCE LENGTH:308 SEQUENCE TYPE:nucleic acid | |
| 40 | TOPOLOGY:linear CLONE:HUMGSO5241 SEQUENCE DESCRIPTION: | |
| 45 | GATCACCTGA GCTGCCTCAG ATTCCATTTG GTCCTCTCCT TCCTGGAAGG CTTCCTTTTA 6 TGTTTTGTTT TAATCCCAAA TGTCTGAATG TTTTGCAGTG TGTAGGGGTT TGAGCCCCTT 12 GTTCATTCTC CTTCCTTTTT CCTCCCGCTT CCCTCTCCAT GAAGTGATTC TGTTGACAAT 18 AATGTATACT GCGCGTNCTC TTCACTGGTT TATCTGCAGA AATNNCTCTG GGCTTTTNTC 24 | 0 |
| 50 | GGTGTTAGAT TCAACACTGC GCTAAAGCGG GGATGTTCCA TTGAATAAAA GAGCAGTGTG 30 GTTTTAAA 30 | 0 |

SEQ ID NO:4412

| 5 | SEQUENCE LENGTH:210 SEQUENCE TYPE:nucleic acid TOPOLOGY:linear CLONE:HUMGS05242 | |
|----|--|-----|
| , | SEQUENCE DESCRIPTION: GATCCACCCA CCTTGGCCTC CCAAAGTGCT GGGATTACAG GCGTGACACN CAAACCCAGC | 60 |
| | CACCAATTTT ACTITAGGTA AACTITTATT TICAAGCTTT TGTTGGTGTT GCAAGTGTAA | 120 |
| 10 | ATCTGTTTTA TAAAATGTTC TATAAATATA ACCACTATTC CTTGTAAGCT ATTTAAAATA | 180 |
| | AATTITAAAG TCTTTCAAGT AAACACCAAA | 210 |
| | SEQ ID NO:4413 SEQUENCE LENGTH:337 | |
| 15 | SEQUENCE TYPE:nucleic acid | |
| | TOPOLOGY:linear | |
| | CLONE: HUMGS05243 | |
| | SEQUENCE DESCRIPTION: | |
| 20 | GATCTGAATT TAGGNACATT TCCTTTTTCT GTGGGAATCA CAAGAGTTTA TCCACTAAAA | 60 |
| | AAAGATATGT AAAAAAGATA CTTTCCAGCA CATAAATAAA GGCTGGAATT TTACAACCTG | |
| | ATGTATATAT TAGACAGTTC TAGGATGTTA GTTCCCTNCA TNCCAGAGCT ATGCTTGTGA | - |
| | TACAGCCCCT TTTCTTATAA AGTCAGTTAG ANGGACTTCC TTAACAATGA CTATTATAAT | |
| 25 | GNCTTNCTTA AAATACAGTT TTGTATTCTG TCAATGCAAA TATAAGACAG GTTGTGCCNT AATCATGTAN CANGNNTATT TTGNAGNTTT ACATATN | |
| | AAICAIGIAN CANGNNIAII IIGNAGNIII ACAIAIN | 337 |
| | SEQ ID NO:4414 | |
| | SEQUENCE LENGTH: 120 | |
| 30 | SEQUENCE TYPE:nucleic acid | |
| | TOPOLOGY: linear | |
| | CLONE: HUNGS05244 | |
| | SEQUENCE DESCRIPTION: | |
| 35 | GATCAGCTAG CTACCTTCTA CTTTCCATTT TTCAAGTGGA TTGTTCTCTT AATTTGTATA | |
| | TAACCTGTTG TCTAAATTTT ATGTACAGTC TTTTATAATA AACCATTCTC CTATATGAAA | 120 |
| | SEQ ID NO:4415 | |
| | SEQUENCE LENGTH: 185 | |
| 40 | SEQUENCE TYPE:nucleic acid | |
| | TOPOLOGY: linear | |
| | CLONE: HUNGS05245 | |
| | SEQUENCE DESCRIPTION: | |
| 45 | GATCTGGCTC ATCCATCTGC ACACTGACCA CGCTAAGAGC TGTCTGCAGT GATGGAAACC | |
| | TTCTCTAGCT GTGCTGTCCT CTATAGTGGC ACCAGCTGCC TGTGGCTACT GAGCACTTCA | |
| | ACTGTGGCTG CAGAGACTAT GTTAAATTGT ATTTAATCAT AATTAATTTA ATTGTAAACA | 185 |
| | AVAMA | 100 |
| 50 | SEQ ID NO:4416 | |
| | SEQUENCE LENGTH-SR | |

| 5 | SEQUENCE TYPE:nucleic TOPOLOGY:linear CLONE:HUMGS05246 SEQUENCE DESCRIPTION: GATCTTAAAA TTCGTTTGCC | | TATATTAAAA | ANGTATTGTT | GAATCAAA | 58 |
|----|--|--------------------------|---------------------------|--------------------------|--------------------------|------------|
| 10 | SEQ ID NO:4417 SEQUENCE LENGTH:109 | | THIN THUM | ANGIATIGIT | unionn | |
| | SEQUENCE TYPE:nucleic TOPOLOGY:linear CLONE:HUMGS05247 SEQUENCE DESCRIPTION: | acid | | | | |
| 15 | GATCCACAAG ATTNAGAAAA CCNANCTNGT TACAAAATTN | | | | CTACTGATAT | 60 109 |
| 20 | SEQ ID NO:4418 SEQUENCE LENGTH:363 SEQUENCE TYPE:nucleic TOPOLOGY:linear | acid | | | | |
| 25 | CLONE:HUMGS05248 SEQUENCE DESCRIPTION: GATCCCTCTA CAGAGCTTCC CCTAGAAACT TCCAAATCCC | CTAAGCAGAC | CACTGATAAA | ACCATGTAGA | AAATTTGTNA | |
| 30 | TTTTGCAACC TCGCTGGACT TGAATACTGT ATTTNGTATT GAGAAGGCCA ATTCCTATAC GAAACANCAA TTTCTACTTT TTN | GTTTCAATTG GCAGCGTGCT | CATCTCCCAG TTAAAAAAATA | ATAATGTGAA AATAAGANAC | AATGGTCCAG AACTCTTTGA | 240 300 |
| 35 | SEQ ID NO:4419 SEQUENCE LENGTH:266 SEQUENCE TYPE:nucleic | acid | | | | |
| 40 | TOPOLOGY:linear CLONE:HUMGS05249 SEQUENCE DESCRIPTION: GATCACATTC AGGATAAGTG | TACAGAAGAA | AATACGGGTG | TTTACTCTTT | AGGGAACTGG | 60 |
| 45 | AAACACTCCC TGCATTGATG AGGTGCTTAA TAGAGCTGAA TTGTAGTCAT TTGATTATTT AAGCTGCAAT TTATTGTNCA | TTAAAGTTTT TTTAAATNGG | TCAAATCTGT | AAACANNGCA | AAAANGTAAA | 180 |
| 50 | SEQ ID NO:4420 SEQUENCE LENGTH:104 SEQUENCE TYPE:nucleic TOPOLOGY:linear | acid | | | | |

| | CLONE: HUMGS05251 SEQUENCE DESCRIPTION: | |
|----|---|------------|
| 5 | | 60 104 |
| 10 | SEQ ID NO:4421 SEQUENCE LENGTH:256 SEQUENCE TYPE:nucleic acid TOPOLOGY:linear CLONE:HUMGSO5252 | |
| 15 | SEQUENCE DESCRIPTION: GATCTCAACA GTGTGGGGTG AACAAGAAGA CTGTATCTTC AGCCTTTTTC CTATAATCAT GGATGATTTG GTCTTATTCA AAAGGACCGC ACATATTAGT ACTCTTAAGA GCATCTTCCA 1 AGACTCCAGC AGNGAGCATT TAGAGAGTGT GTTGTCTTCC AGAGTCATGA ATGATTTTGT 1 TTAGCTATCA GGTCTACTAC CTCTAAGGAC ATTTCATAGC AGCATCTCTT GAGTTGCCTG 2 | 180 |
| 20 | | .00 |
| - | SEQ ID NO:4422 SEQUENCE LENGTH:255 SEQUENCE TYPE:nucleic acid | |
| 25 | TOPOLOGY:linear CLONE:HUMGSO5253 SEQUENCE DESCRIPTION: GATCTGAATA TAATTCTGGT AAACAGCTGT CTTCATTTTT NTCCTCTAAA GAACTTAATT | 60 |
| 30 | CATTTGTTAC ATAAAATATA AGGAAATCTT TGTACTATTT TACAGTAACC ACAATCTAAA 1 TATTTACATA TACCCAAAAT TANCTTATGC TCATATATTA GGATGTGAGA NTATCATCTG 1 TTTATGGACA CATGAAACCT CCTAATGACC TGGAATTGTT AGANTATNTG ACTTTTTATA 2 | .20 .80 |
| 35 | SEQ ID NO:4423 SEQUENCE LENGTH:58 SEQUENCE TYPE:nucleic acid | |
| 40 | TOPOLOGY:linear CLONE:HUMGS05254 SEQUENCE DESCRIPTION: GATCCCCGGT GGTTTTGTGC TCAAAATAAA AACTGATTAA ACCTTTGTGG CTGTGAAA | 58 |
| 45 | SEQ ID NO:4424 SEQUENCE LENGTH:234 SEQUENCE TYPE:nucleic acid | |
| 50 | | 60 |
| | AGACTGGAAT CCTACTTTGA GCCACTGACT TGAAATAACT CTTTTGGCAA GTTGCCTGAC 19 | 20 |

| | ATCCTGTCTT ACCAAGGTGG | | | | | |
|----|---|------------|------------|------------|-----------------------------|-----|
| | TAACCATCTT NANCCAAATT | NATCATATNN | GNGGTNGGCC | TANCAGGNTT | TTNN | 234 |
| 5 | SEQ ID NO:4425 | | | | | |
| | SEQUENCE LENGTH: 200 | | | | | |
| | SEQUENCE TYPE:nucleic | acid | | | | |
| | TOPOLOGY: linear | | | | | |
| 10 | CLONE: HUMGS05259 | | | | | |
| | SEQUENCE DESCRIPTION: GATCCACCTG CCTCAGCCTC | CCAAANTGCA | NGGTATTACA | CNCANGAGNT | ተ ርተር <u>ርር</u> ተርተር | 60 |
| | GCAATAATGT AACTTTGAAG | | | | | |
| | ATCTACAACG GAAGAAAGAA | • | | | | |
| 15 | AAAGCCTATA GTTGCCGAAA | | | | | 200 |
| | SEQ ID NO:4426 | | | | | |
| | SEQUENCE LENGTH:84 | | | | | |
| 20 | SEQUENCE TYPE:nucleic | acid | | | | |
| | TOPOLOGY: linear | | | | | |
| | CLONE: HUMGS05260 SEQUENCE DESCRIPTION: | | | | | |
| | GATCTAGTCA TCTTCTGTAG | CTACATAGTA | CTCCTAATGT | TAAGATTACC | AAATTCAGCA | 60 |
| 25 | ATAAAGCCAA AATCAAAACT | GAAA | | | | 84 |
| | | | | | | |
| | SEQ ID NO: 4427 | | | | | |
| | SEQUENCE LENGTH: 75 | | | | | |
| 30 | SEQUENCE TYPE:nucleic TOPOLOGY:linear | acıd | | | | |
| • | CLONE: HUMGS05262 | | | | | |
| | SEQUENCE DESCRIPTION: | | | | | |
| 35 | GATCATAAAC CAGTGNNATC | AGACCTATGT | GTAATAAGAC | TCCTGTTAAT | ACAAAAATAA | 60 |
| | AAAGCTAAAA GCAAA | | | | | 75 |
| | CEO ID NO. 4400 | | | | | |
| | SEQ ID NO:4428 SEQUENCE LENGTH:424 | | | | | |
| 40 | SEQUENCE TYPE:nucleic | acid | | | | |
| | TOPOLOGY:linear | | | | | |
| | CLONE: HUMGS05263 | | • | | | |
| | SEQUENCE DESCRIPTION: | | | | | |
| 45 | GATCTCAAAC TTGTCTTAAA | | | | | |
| | CACAATGCAA AATACACATT | | | | | |
| | TGTAAGAATA TATTTAATAT GCANCNCAAT TTTTTTCTC | | | | | |
| | GAAATAGAAT TCAGGTTTAC | | | | | |
| 50 | GCATGTGTGT TTCTAAAANG | | | | | |
| | CATCTINCCT TAGTGAAAAG | | | | | |

| | GNTN | 424 |
|----|--|----------|
| 5 | SEQ ID NO:4429 SEQUENCE LENGTH:122 SEQUENCE TYPE:nucleic acid TOPOLOGY:linear | |
| 10 | CLONE:HUMGS05264 SEQUENCE DESCRIPTION: GATCTGCTCC CTCTCGCTCT CTCACTCCAC TACTTTTTGG AACAAAGTGA TGGCAGAATG CGGTGGTGGT GGGGGTCTTT TGTACTGTTG GATTAATAAA ATGATTTNAA ATTNCNNNTA AA | |
| 15 | SEQ ID NO:4430 SEQUENCE LENGTH:85 SEQUENCE TYPE:nucleic acid TOPOLOGY:linear | |
| 20 | CLONE:HUMGS05266 SEQUENCE DESCRIPTION: GATCAGTATA ATTITTNAAA GTTACTTTGT NAGAGGCACA AAAGGGTTTA AACTGNTTCA TAATAAATAT CTGTACTTCT TCAAA | 60 85 |
| 25 | SEQ ID NO:4431 SEQUENCE LENGTH:187 SEQUENCE TYPE:nucleic acid TOPOLOGY:linear | |
| 30 | CLONE: HUMGS05267 SEQUENCE DESCRIPTION: GATCACGTAG ACATGTAACC CAGCAGCAGT TTGCTTCTGT TGTCCACTGA TTAATCAGCC | 60 |
| 35 | TATGTGCCTG ACACTGGTCT TGCAGTACAA CTGNAAGCCA AAACAAGGTG GAAGATGTCC TGAATTAAGA TGTTTTCACC ACATTGTATT ACAGAGACAG CCAATAAATC TACTATTTGA TTTCAAA | |
| 40 | SEQ ID NO:4432 SEQUENCE LENGTH:211 SEQUENCE TYPE:nucleic acid TOPOLOGY:linear CLONE:HUMGS05269 | |
| 45 | SEQUENCE DESCRIPTION: GATCTTTTAT TTNTGAAACA CTCAAACACC TTACAAAGTG CTGAGTAGGT AATAGTGACC CAACTTGTTT GCTAAATGAT TATTTGTTTA AATCTGTACA GTTTTAAGTG TTCACTTATA CAAAGAGTGT ATATACTTTC AAATAATTNA AAATGCTTTA NATTATNNGG CTAGAAATTG CNGTTTTNAA TAAATGTGAA TNTNTNAAAA N | 120 |
| 50 | SEQ ID NO:4433 SEQUENCE LENGTH:62 | |

. 55

| 5 | SEQUENCE TYPE:nucleic TOPOLOGY:linear CLONE:HUMGS05270 SEQUENCE DESCRIPTION: GATCTGTTGT TAGGATTCTA AA | | TTNTTTTAA | AAACTAAGGA | CAAATGAACA | 60 62 |
|----|--|--------------------------|--------------------------|--------------------------|--------------------------|------------|
| 10 | SEQ ID NO:4434 SEQUENCE LENGTH:98 SEQUENCE TYPE:nucleic TOPOLOGY:linear | acid | | | · | |
| 15 | CLONE:HUMGS05271 SEQUENCE DESCRIPTION: GATCCCAGGG GAGGGGTCTC ATGAAACCCC AATAAATATC | | | CAGCCCTTCT | CCCTGCACTC | 60 98 |
| 20 | SEQ ID NO:4435 SEQUENCE LENGTH:239 SEQUENCE TYPE:nucleic TOPOLOGY:linear | acid | | | | |
| 25 | CLONE:HUMGS05272 SEQUENCE DESCRIPTION: GATCGTATCC CGCTGACACA AGAAAACCCT AAGTGTGGAT AGTGCCTGGC ATGCAAGGNT | GTTCAGAATT AAGAGGTTCT | TTGGAAAAAT TTACATAACA | GTCACTGAAG TTTCCTAAAT | TGATTGAAAG GCTTAATAAA | 120 180 |
| 30 | CGTTTGTTGC ACTTGGTTTT | GACATTGCCA | ATGGGGTTTG | AACCAGTGCT | CTCTCTAAA | 239 |
| 35 | SEQ ID NO:4436 SEQUENCE LENGTH:102 SEQUENCE TYPE:nucleic TOPOLOGY:linear CLONE:HUMGS05273 SEQUENCE DESCRIPTION: | acid | | | | |
| 40 | GATCTGCAAT GACTGGAACT AGAAGCTTGG CTGGGGCAGA | | | | CAGGGTCCAA | 60 102 |
| 45 | SEQ ID NO:4437 SEQUENCE LENGTH:333 SEQUENCE TYPE:nucleic TOPOLOGY:linear CLONE:HUMGS05274 | acid | | | | |
| 50 | SEQUENCE DESCRIPTION: GATCTTCTTT TGGGAGGATT TTAACAGTAT TTTAAGAAGT GCAATTTGAA GGTACGAGTA | TGATGTAAGT TGCTGCAGAT | TCCTTTGGCC | ACTGTATTTG | TTAATTNCTT | 120 |

| | TTTAAGTTGT AAAG | CGTCTTT | TTAAGCCTTT | GANGTGCCTC | TGATTCTATG | TAACTNGTTG | 240 |
|----|------------------|----------------|------------|------------|--------------------|------------|-----|
| | CAGACTGGTG TTA | ATGAGTA | TATGTNACAG | TTTAAAANAA | AAGTTGGTAT | TTTATANGCA | 300 |
| | CAGTCAATNC TNAT | TGGTAAC | TTTTGGTNGT | CTN | | | 333 |
| 5 | | | | | | | |
| | SEQ ID NO:4438 | | | | | | |
| | SEQUENCE LENGTH | 1:72 | | | | | |
| | SEQUENCE TYPE: | nucleic | acid | | | | |
| 10 | TOPOLOGY: linear | • | | | | | |
| | CLONE: HUMGS0527 | 75 | | | | | |
| | SEQUENCE DESCRI | PTION: | | | | | |
| | GATCAATGTT TCAC | CCCTAG | ACTGCCCAAG | GAGTATTATT | TAATTATTAAT | AAATGAATTC | 60 |
| | TGTGCTTTTA AA | | | | | | 72 |
| 15 | | | | | | | |
| | SEQ ID NO:4439 | | | | | | |
| | SEQUENCE LENGTH | I:100 | | | | | |
| | SEQUENCE TYPE:n | ucleic | acid | | | | |
| 20 | TOPOLOGY: linear | • | | | | | |
| | CLONE: HUMGS0527 | ' 6 | | | | | |
| | SEQUENCE DESCRI | PTION: | | | | | |
| | GATCAGATTA TTTT | CACTACC | AACAGTTATA | GTTTGAAAGT | CCAACTGTAT | TAATTGACTG | 60 |
| | ATAATATGAT AATA | TAGAGA | TTAAATTGTT | TGTNTTCAAA | | | 100 |
| 25 | | | | | | | |
| | SEQ ID NO:4440 | | | | | | |
| | SEQUENCE LENGTH | 1:96 | | | | | |
| | SEQUENCE TYPE:n | ucleic | acid | | | | |
| 30 | TOPOLOGY: linear | • | | | | | |
| | CLONE: HUMGS0527 | ' 8 | | | | | |
| | SEQUENCE DESCRI | PTION: | | | | | |
| | GATCACAAAG AGCA | AACAAA | TGTCAATATC | TCTTATGAAT | GGTGAAAAA | AGGAATTAAT | 60 |
| 35 | CGATGCAAAT AAAC | TTTTCA | CAGTATTACT | TTTAAA | | | 96 |
| •• | | | | | | | |
| | SEQ ID NO:4441 | | | | | | |
| | SEQUENCE LENGTH | 1:116 | | | | | |
| | SEQUENCE TYPE: n | ucleic | acid | | | | |
| 40 | TOPOLOGY: linear | • | | | | | |
| | CLONE: HUMGS0527 | • | | | | | |
| | SEQUENCE DESCRI | PTION: | | | | | |
| | GATCTAGCAA GCCA | TGGCGA | CAGGTAGCAT | TTNTAAGATG | NTGNACAGGA | GCAGNATTAT | 60 |
| 45 | CCCCAAAGAT ATTA | CAGGGT | AGACACGTTT | TAACTAAAAT | CAATCAAGNT | AACTTN | 116 |
| | SEQ ID NO:4442 | | | | | | |
| | SEQUENCE LENGTH | l: 4 11 | | | | | |
| | SEQUENCE TYPE:n | ucleic | acid | | | | |
| 50 | TOPOLOGY: linear | | | | | | |
| | CLONE: HUMGS0528 | 0 | | | | | |

| | SEQUENCE DESCRIPTION: | | | | | |
|----|---------------------------------------|--------------------|------------|------------|-------------|-----|
| | GATCTGACAT ATATCACCTT | | TACTCATTGT | GCCAGGACCT | GGCATTTTCA | 60 |
| | TGTGCCTTTG ACCAAGTGTT | | | | | |
| 5 | ATGCCCCTTC ATGGAGCTTC | | | | | |
| | AATTAANGTA TCTATTTGCT | GCATTGTATA | TGGATTAANT | GNTAAAAAAC | AAGTAATCTA | 240 |
| • | CCCTCAGAGC CATGTATTTG | AGAATGCTTT | CAATCATATT | TNCCTATGNA | CTTTTTTTTT | 300 |
| | ATAAACTTAG TTTTANGCCT | ATGTTGTAAA | ANTGGGAAGG | TTNGTAAACN | TATGTTTGGN | 360 |
| 10 | AAAANTAGGG GAAATGTNGG | CTTAAANTTN | TTTTNCANTT | ATNTTNGTTT | N | 411 |
| | | | | | | |
| | SEQ ID NO:4443 | | | | | |
| | SEQUENCE LENGTH: 90 | | | | | |
| 45 | SEQUENCE TYPE: nucleic | acid | | | | |
| 15 | TOPOLOGY:linear | | | | | |
| | CLONE: HUMGS05281 | | | | | |
| | SEQUENCE DESCRIPTION: | | | | | |
| | GATCTATCTG GGGGTCCTAG | TGTACCACAA | GCTGAACCTG | AAGATTTGGA | AAAATGTTTC | 60 |
| 20 | TAATTAAATA AAACAGAGCA | AAAAGACAAA | | | | 90 |
| | | | | | | |
| | SEQ ID NO:4444 | | | | | |
| | SEQUENCE LENGTH: 342 | | | | | |
| 25 | SEQUENCE TYPE:nucleic | acid | | | | |
| | TOPOLOGY: linear | | | | | |
| | CLONE: HUMGS05282 | | | | | |
| | SEQUENCE DESCRIPTION: | 01111011 | | | | |
| | GATCTACATT TAAGTGGAAA | | | | | 60 |
| 30 | AACTTCAGAT ACAAATAACT | | | | | |
| | NTTATTCAGT ATTTTCCTNT | | | | | |
| | TTTGGAAACA AATCTTCTGT | | | | | |
| | ATCCAAAGCT GCTCTCGATA | | | | CTTACTTTNT | |
| 35 | TTCTCCCAAA CTCTATTTAA | TAAACTNATT | TTAATGGTTA | AA | | 342 |
| | CEO ID NO. 4445 | | | | | |
| | SEQ ID NO:4445 | | | | | |
| | SEQUENCE LENGTH: 61 | | | | | |
| 40 | SEQUENCE TYPE:nucleic TOPOLOGY:linear | acia | | | | |
| | CLONE: HUMGS05283 | | | | | |
| | SEQUENCE DESCRIPTION: | | | | | |
| | | TA 1 A 1 T C T T C | *C**C**** | 1077101007 | C444 CTCT44 | 60 |
| | GATCACAAAA ATGTATTTTA | IAAAAIGIIC | IGIACAATAA | AGITACACCI | CAAAGIGIAA | 60 |
| 45 | Λ | | | | | 61 |
| | SEQ ID NO:4446 | | | | | |
| | SEQUENCE LENGTH: 301 | | | | | |
| | SEQUENCE TYPE:nucleic | anid | | | | |
| 50 | TOPOLOGY: linear | acia | | | | |
| | CLONE: HUMGS 05284 | | | | | |
| | ~~~~~. HUHNUUUUU | | | | | |

| | SEQUENCE DESCRIPTION: | |
|----|--|---|
| | GATCATTATC AGTAATTTCA TAGCAACTGT TCTAGNGTTT TGNGTTTTTA AAACAGAATT 6 | 0 |
| | AGGAATTTGA GATATCTGAT TATATTTTTC ATATGAATCA CAGCTGTTGA CAATGTCCCA 12 | |
| 5 | TATATTTAAG AAATTATATC ATACTGATAC TATTTGTAAC ATTTTGATTT GATTTAATCT 18 | 0 |
| | CCAGGGACAG AAATAATTCA TTGGTAAAGN GTAATAATGC GTTTTTTAAA AATGCTTTGA 24 | 0 |
| | GAGGTAATTA CTTGCATATG AGAGAAATAA AACATTTGGC ACATTGTTTA CAGGTGTGAA 30 | 0 |
| | A 30 | 1 |
| 10 | | |
| | SEQ ID NO:4447 | |
| | SEQUENCE LENGTH: 153 | |
| | SEQUENCE TYPE:nucleic acid | |
| _ | TOPOLOGY: linear | |
| 15 | CLONE: HUMGS05285 | |
| | SEQUENCE DESCRIPTION: | |
| | GATCAGACCG AGAAGCAGGG TGAGAGATTC TAACGACTGG ATGCTGCTAG TAACACATTG 6 | _ |
| | TTTGTATTGC TTTACCATTT TTAACTGTTA GATTTGAGAT GAACATACAT TTTGCTTTTT 12 | 0 |
| 20 | TAATAAATGT TTAAAAGAAG TCCACATAAG AAA 15. | 3 |
| | | |
| | SEQ ID NO:4448 | |
| | SEQUENCE LENGTH: 216 | |
| 25 | SEQUENCE TYPE:nucleic acid | |
| | TOPOLOGY:linear | |
| | CLONE: HUMGS05286 | |
| | SEQUENCE DESCRIPTION: | |
| | GATCACTACA GTGAAGTATT ACAGTTGTAC AGTTCCCAGT CTGGCCTTGG CTTGCTCGGA 60 | |
| 30 | TAAAACTITG TATGTATTIT GTATGGCATA GATTCTATAT TGTAATGATG TCCTATGCAA 120 | |
| | AAAGAAAAAT TAACGAAATT GTAAATTTTA TTGTTTTAAC GTGTATGCAT GTTTAGTGAC 180 | |
| | GTTTACATTT TGAAATAAAA TTTATGATTC ATTAAA 216 | j |
| | CD0 ID NO. 4440 | |
| 35 | SEQ ID NO: 4449 | |
| | SEQUENCE LENGTH: 172 SEQUENCE TYPE: nucleic acid | |
| | TOPOLOGY: linear | |
| | CLONE: HUMGS05287 | |
| 40 | SEQUENCE DESCRIPTION: | |
| | CAMOROGALLA CONTRACTOR | |
| | TAATAATTTC GTTCCTCTTG TGCCCAATCA AATCTTTTAG GAACAAACTG CAAGAAAAGC 120 | - |
| | | |
| | TAAGAATGTT TTAGAGTGAA CTAAATACAG ACATTGCTTA CTTGTTTTGA AA 172 | • |
| 45 | SEQ ID NO:4450 | |
| • | SEQUENCE LENGTH: 289 | |
| | SEQUENCE TYPE:nucleic acid | |
| | TOPOLOGY: linear | |
| 50 | CLONE:HUMGS05288 | |
| | SEQUENCE DESCRIPTION: | |
| | | |

| | GATCTCCCTG TGGCAGCAGG | | | | | |
|----|---|-------------|-------------|------------|---------------------|-----|
| | GTGGGTGACT GGCCACAGGC | | | | | |
| 5 | GCCTTCAGGC TGGACTGAGC TTGCATACAT GCCTGGCATC | | | | | |
| • | AGCAGGCTGT ATCTGGATTC | | | | TGGGGCTCTG | |
| | | IGGCAATAAA | Adiacicida | AIGCIGAAA | | 289 |
| | SEQ ID NO:4451 | | | | | |
| 10 | SEQUENCE LENGTH: 121 SEQUENCE TYPE: nucleic | :4 | | | | |
| | TOPOLOGY: linear | aciu | | | | |
| | CLONE: HUMGS05289 | | | | | |
| | SEQUENCE DESCRIPTION: | · | | | | |
| 15 | GATCTCTTAA AAATACCACA | GTTTGTATTT | TTCCTTTAAG | GAGTAAAGAT | ፐፐር ርርርፕፕዮልል | 60 |
| | ATAACTTGGT ATTTTCCTGG | | | | | |
| | A | 01110011111 | | MUNIMUM | TIMOMOGRAM | 121 |
| | | | | | | 161 |
| 20 | SEQ ID NO:4452 | | | | | |
| | SEQUENCE LENGTH: 293 | | | | | |
| | SEQUENCE TYPE:nucleic | acid | | | | |
| | TOPOLOGY: linear | | | | | |
| 25 | CLONE: HUMGS05290 | | | | | |
| 25 | SEQUENCE DESCRIPTION: | | | | | |
| | GATCAATGTG ACGGCAGGGA | | | | | 60 |
| | CAGTTGTTAT TTATTGAAAT | | | | | |
| | TTAAGAACTA AAATGTTCTA | | | | | |
| 30 | CTGCCTTGTT TAATGTTAAT | | | | | 240 |
| • | ATATTTATTG ATGTTTTCAC | AAAGAACAGG | TAAAATAAAAT | TAAAAAT | AAA | 293 |
| | SEQ ID NO:4453 | | | | | |
| 35 | SEQUENCE LENGTH: 336 | | | | | |
| | SEQUENCE TYPE: nucleic | acid | | | | |
| | TOPOLOGY: linear | | | | | |
| | CLONE: HUMGS05291 | | | | | |
| 40 | SEQUENCE DESCRIPTION: | | | | | |
| 40 | GATCTAGGTC CTTCTATCTC | | | | | 60 |
| | CAACACTGGT TTTCTTAGGT | | | | | |
| | TCTCTAATTT GGTCCTGATA | | | | | |
| | TGTCTTACAA TCACTGCTGT | | | | | |
| 45 | AGTGTATTTT TGTTTTTCAA | | | GACAACTTTG | | |
| | TCATTGATAA ATAAACTGGC | LIGIGGTTTC | AATAAA | | | 336 |
| | SEQ ID NO:4454 | | | | | |
| 50 | SEQUENCE LENGTH: 252 | | | | | |
| | SEQUENCE TYPE:nucleic | acid | | | | |
| | TOPOLOGY:linear | | | | | |

| 5 | CLONE:HUNGS05292 SEQUENCE DESCRIPTION: GATCTGCTGC AACCATTATC TINGTTCTTG AGTTCATCAT GCATTTAAAA TGAGATGCAA 66 GAGCATTTAG CATACCATGT AAATATGGAC CTTTTAAAAT TAAAATACTA TTGGAAGTGC 120 TTTCAACTCA GCCACATCTT AGCTATTAGT TCTTTGTGTT GTCTTATCAA AGTTTAATGG 180 ATACAGTTCC ACAGTTGTTG ATGTGTTTGT GTGTATATTC GATTNNNNNA AAGATGGTAG 240 TAAGTCAATA AA 2552 |
|----|--|
| 10 | SEQ ID NO:4455 SEQUENCE LENGTH:57 SEQUENCE TYPE:nucleic acid TOPOLOGY:linear |
| 15 | CLONE:HUMGS05293 SEQUENCE DESCRIPTION: GATCATACCA CTCCACTCCA GCCTGGGCAA CACAGCGAGA CTCCATGCTC CCCCAAA 57 |
| 20 | SEQ ID NO:4456 SEQUENCE LENGTH:564 SEQUENCE TYPE:nucleic acid TOPOLOGY:linear |
| 25 | CLONE:HUNGS05294 SEQUENCE DESCRIPTION: GATCAGGCTC TCCTCATGCT GTTTAGTGAT GGCACTGTCC AGGTGAACTN CTACGGGGAC 60 CACACCAAGC TGATTCTCAG TGGCTGGGAG CCCCTCCTTG TGACTTTTGT GGCCCGAAAT 120 |
| 30 | CGTAGTGCTT GTACTTACCT CGCTTCCCAC CTTCGGCAGC TGGGCTGCTC TCCAGACCTG 180 CGGCAGCGAC TCCGCTATGC TCTGCGCCTG CTCCGGGACC GCAGCCCAGC CTAGGACCCA 240 AGCCCTGAGG CCTGAGGCCT GTGCCTGTNA GGCTCTGGCC CTTGCCTTTG TGGCCTTCCC 300 CNTTCCTTTG GTGCCTNACT GGGGGCTTTG GGCCGAATCC CCCAGGGAAT CAAGGGACCA 360 |
| 35 | GCTTTACTNG AGTTTGGGGN CGGGNTTGTT TTCGNTGGNT TCCTACCCCA TNTCCAAGAT 420 AAGCCTTNAG CNTTAANTCC CANGNTAGGG GGCGTTATTT NATGGACCAA TTTTTAATTT 480 ATTNTAAGAA ANTITNTTTA NTTGGGGATT TTAAGCCCAA AGGGGGGCCC TCNTCCTNAG 540 GTNANAAAAN AATTTTTAA GAAA 564 |
| 40 | SEQ ID NO:4457 SEQUENCE LENGTH:112 SEQUENCE TYPE:nucleic acid |
| 45 | TOPOLOGY:linear CLONE:HUMGS05295 SEQUENCE DESCRIPTION: GATCTTTATT TTTGATTAAT TTGTTCTGAT TTTTTGGTTT GTTTTTTAAG GAACTGTAAT 60 GAACAAATGT CAGGATATCC AATGCCAAAT AAAGATGTTG TATTTATTTA AA 112 |
| 50 | SEQ ID NO:4458 SEQUENCE LENGTH:152 SEQUENCE TYPE:nucleic acid |

| 5 | TOPOLOGY:linear CLONE:HUMGS05296 SEQUENCE DESCRIPTION: GATCACACCC NGGTGAACCC ANGGTGCTAA GANTGAAAAT AACCTTGGTG AAATGTACAA 6 NTTAAAAGACA AAGAACTACA TGTGAAGATA GACTTGCTTT CTATTTTNAA ATCAGTAGTA 12 GTACTGTTGC TGAATAATAC TAGGTTTTNN CN 15 | 0: |
|----|---|----|
| 10 | SEQ ID NO:4459 SEQUENCE LENGTH:323 SEQUENCE TYPE:nucleic acid TOPOLOGY:linear | |
| 15 | CLONE:HUMGS05297 SEQUENCE DESCRIPTION: GATCTGGTGC TGCTTTCAGA TGTTTATCTT TTATTTTTTT CCCTTAAGCT TTAATCTTCG 6 TCATTGTCTT AAAGTCAACT GGTGTTTCTT GTTCATTGAC TTTGGTACGA TGGTGCTTTG 12 | 0 |
| 20 | CAAGGATGTA TTTATGTTAT AATGGCCAAC ATTTGGTCAG CCCTTGTCCA CTTATTCACT 18 TCCCTCCNTT TGTAAAATAA GTGCTTTAAT TATAAACTGT ATAAAAATAC CTTGTATAAA 24 CCCCTTTTTT GATTATTACA ATAAATAAGC TGAATTGTAA CAAATGAAAT TTGATTTTTG 30 TAATAAAACA GTGGAAAAGT AAA 32 | 0 |
| 25 | SEQ ID NO:4460 SEQUENCE LENGTH:229 SEQUENCE TYPE:nucleic acid | |
| 30 | ATTATATAA AATATTTGTG TATGTGTACA AAAGCGTTGA TAAATACTAA TCTTTAAAGT 12 | - |
| 35 | TTGTGGAGTT CCTTTATTTG TAATATATGT GCTCTTAAAA GCAATGGGAT GTGAAATTAT 18 GAAAGTATTT TATTGTTCAT AGAAATAAAA AACACAGTTA CTTTGCAAA 22 | - |
| 40 | SEQ ID NO:4461 SEQUENCE LENGTH:135 SEQUENCE TYPE:nucleic acid TOPOLOGY:linear | |
| | CLONE:HUMGS05300 SEQUENCE DESCRIPTION: GATCTGGACC TAATGAATTC CTCAGAAAAT TCCCATGAGT CAGCTGATTT CAGTGCTGCT 6 GAACTAATTN CTGTGTCTAA ATTTCTTCCT ATTTCTGGAA TGGAAAAGGA GGNCATTCTG 12 | 0 |
| 45 | AGCCACACTG NNNNN 13 | |
| 50 | SEQ ID NO:4462 SEQUENCE LENGTH:102 SEQUENCE TYPE:nucleic acid | |

| | CLONE: HUMGS05301 SEQUENCE DESCRIPTION: | | | | | |
|----|---|------------|---------------------|------------|----------------------|-----|
| _ | GATCTGGGTA AAGGACCATC | | | | CAACTTTTCA | |
| 5 | AGTTTCAAAC TATTTGCAAA | TAAAGAGTTT | TTGTTTGTTA | AA | | 102 |
| | SEQ ID NO:4463 SEQUENCE LENGTH:189 | | | | | |
| 10 | SEQUENCE TYPE:nucleic | acid | | | | |
| | TOPOLOGY:linear | | | | | |
| | CLONE: HUMGS05302 | | | | | |
| | SEQUENCE DESCRIPTION: | | | | | |
| 15 | GATCACATGG CTAAGGTGGT | | | | | 60 |
| 15 | TTTGAAATTA ACAAGAATCT | | | | | |
| | TGCCTACTGA TTTTNANNNN | CATCATCAAT | GATTCTTGCT | TATAACAGGT | ATTAATGTTA | |
| | TGCTTGAAA | | | | | 189 |
| 20 | SEQ ID NO:4464 | | | | | |
| | SEQUENCE LENGTH: 364 | | | | | |
| | SEQUENCE TYPE: nucleic | acid | | | | |
| | TOPOLOGY: linear | | | | | |
| 25 | CLONE: HUMGS05303 | | | | | |
| | SEQUENCE DESCRIPTION: | ********** | <i>ጥርጥጥር ከተ</i> ጥጥጥ | 00T00T0T0+ | ም ለምምምለባጥ 1 1 | 60 |
| | GATCATGTTA ATTTAAAGCT TATGCTATAC CCCACTGCTG | • | | | | |
| | GACCATTTGA TGCTGTTGTC | | | | | |
| 30 | TCTTCCTGGG GATTACACAG | | | | | |
| | TAATCTTAAA ACTACAAGTT | | | | | |
| | ATCAGGNNAG TGTTGCTTTT | | | | | |
| | NGTN | | | | | 364 |
| 35 | ana 10 No 1405 | | | | | |
| | SEQ ID NO:4465 | | | | | |
| | SEQUENCE LENGTH: 229 SEQUENCE TYPE: nucleic | naid | | | | |
| | TOPOLOGY: linear | aciu | | | | |
| 40 | CLONE: HUMGS05304 | | | | | |
| | SEQUENCE DESCRIPTION: | | | | | |
| | GATCACTTGA TGTCAGGGAG | TTTGAGACCA | GCCTGGCCAA | CATGGTGAAC | CCCATCTCTA | 60 |
| | CTAAAAATAC GAAAATTAGC | | | | | |
| 45 | AAACTGAGGC AGGAGAATCA | | | | | |
| | TGCCACTGCA GTCCAGCCTG | GGTGATGAAA | CAAGACTCTT | TGTCTCAAA | | 229 |
| | SEQ ID NO:4466 | | | | | |
| 50 | SEQUENCE LENGTH: 496 | | | | | |
| 50 | SEQUENCE TYPE:nucleic | acid | | | | |
| | TOPOLOGY:linear | | | | | |

CLONE: HUMGS05305 SEQUENCE DESCRIPTION:

| | GATCTCTAAG GAACTCC | FGT TGCTAAATAT | GAAGAGTATG | GAACATTCAT | ATAGTCTCTG | 60 |
|----|----------------------|----------------|------------|------------|------------|-----|
| 5 | TGAAGCATGG GGGGAGG | GAA GACATTTCTN | TTNCTTATAG | GCTTTATGCT | CAAATGTCAT | 120 |
| | AGTCTCCTTT CAAAGAA | TTG TGTTGCATTI | TAAATGCACC | CAGCTTAAGT | AGAAGACATT | 180 |
| | GAAGGATGCA TTAATTT | CA GGAACTATTI | TGGATTATGA | AAAGATTCCC | AATTGAAAAA | 240 |
| | ATTATTCAAC AAGTAAA | AGC TAAGAAATTN | CATTGAAATC | ATAATGGCAG | TTTAAGCATA | 300 |
| 10 | AATTTGATAA ANAATAG | TG TGTACTACTA | AATTAATTAG | GAAAATTCNA | TTCCAANCCC | 360 |
| 10 | AAGNNGAAGG AGTCCAN | GT GGAAATATCO | GGTTTGGTTT | TATTTTGNNC | TTAGGNTGAN | 420 |
| | GTTTTCCTTT GGTNAAC | GN TTGNNTTTT | TATTTAANAT | NGNTTAATTA | TTTTTNGGTT | 480 |
| | AANGNTATGC CCCNTN | | | | | 496 |
| 15 | SEQ ID NO:4467 | | | | | |
| | SEQUENCE LENGTH: 415 | i | | | | |
| | SEQUENCE TYPE: nucle | eic acid | | | | |
| | TOPOLOGY:linear | | | | | |
| 20 | CLONE: HUMGS05306 | | | | | |
| | SEQUENCE DESCRIPTION | N: | | | | |
| | GATCTTGGGA GATATTA | TA TCTGCTGGCC | AGACCTAAAA | AAAACTGAAG | GCCCAAGGAA | 60 |
| | AGTGACTGGA CTCACTGG | AA AGTNTCTAAC | AAATACTTTG | GATTCCAAAG | TATTTCCAAT | 120 |
| | ACCTTGAAGA TTCCTTTC | AA AACATCAAAG | CACAAACTCA | AATCTGCACA | AGATTACAAA | 180 |
| 25 | AGCACAATTT TGGTGTTA | TT TTTAGANTNO | AATACACAAA | GCTATTGTTC | ATTTCTNTCA | 240 |
| | GCAAGCATTT TCCTGGGT | AG TAGTAATAGC | TTAGGAATCA | AATGCCACTT | TTNTTTTTCC | 300 |
| | TTTTTTCCAC TAGTTTGA | AA TACCACAANT | NACAGGTNAG | TCAGTCCTCC | CAGAGGNNAA | 360 |
| | NGGNCAGTCC TAGGGNG | NA TCAACAGGNC | TNGCAAGNCA | AGNCCCACAA | NTTNN | 415 |
| зд | | | | | | |
| • | SEQ ID NO:4468 | | | | | |
| | SEQUENCE LENGTH: 205 | 1 | | | | |
| | SEQUENCE TYPE: nucle | ic acid | | | | |
| | TOPOLOGY: linear | | | | | |
| 35 | CLONE: HUMGS05307 | | | | | |
| | SEQUENCE DESCRIPTION | N: | | | | |
| | GATCGCAAAT TGAAATAT | | CAGGCTGCGT | GTTTTTCATT | TTAAACACAC | 60 |
| | AAGATTTAAT TGAAAGGA | CA TCAATAATCA | TAATTGTGTA | TTTAACAGGT | GGTTTTNTAT | 120 |
| 40 | TAGTTTCTN GTGTTTCA | | | | | |
| | ACATTTTAAT AAAAAGCA | | | | | 209 |
| | SEQ ID NO:4469 | | | | | |
| 45 | SEQUENCE LENGTH: 353 | } | | | | |
| •3 | SEQUENCE TYPE: nucle | ic acid | | | | |
| | TOPOLOGY: linear | | | | | |
| | CLONE: HUMGS05308 | | | | | |
| | SEQUENCE DESCRIPTION | N: | • | | | |
| 50 | GATCGCACCT TTTATACC | | CAGATGAAAT | TNATTTCCAT | CTAGGACTAG | 60 |
| | AAAAACTTGG GTCTCTTA | | • | | | |
| | | | | | | |

| | TTTCATGGAG GGGAAACGC | | | | | |
|----|------------------------|--------------|---|--------------|------------|-----|
| | GCCTAGGCCC GGGGTGGCC | | | | | |
| | TAAGGGAGAG TTGACCGTT | | | | | |
| 5 | TCTNACTTAT ACCAAAGGG | A AAACTCTTCA | TTAAAGNCCG | TATTTCTTCT | AAA | 353 |
| | SEQ ID NO:4470 | | | | | |
| | SEQUENCE LENGTH: 64 | | | | | |
| 10 | SEQUENCE TYPE: nucleio | acid | | | | |
| 70 | TOPOLOGY:linear | | | | | |
| | CLONE: HUMGS05309 | | | | | |
| | SEQUENCE DESCRIPTION | | | | | |
| | GATCCTCTAA CACTGTACTA | AAACATTTCA | ATAAAATCAT | TCTGACTGCG | TTCATAAAAA | 60 |
| 15 | CAAA | | | | | 64 |
| | SEQ ID NO:4471 | | | | | |
| | SEQUENCE LENGTH: 169 | | | | | |
| 20 | SEQUENCE TYPE:nucleio | acid | | | | |
| 20 | TOPOLOGY:linear | derd | | | | |
| | CLONE: HUMGS05310 | | | | • | |
| • | SEQUENCE DESCRIPTION: | | | | | |
| | GATCTATTAC TGACCGTATO | | СТТТТТТИСС | TTGTGGTTAG | CAAGACTGCA | 60 |
| 25 | AGAGATGGAA AAAAAGTAGT | | | | | |
| | TGACCACCAA TCATTTCCTT | | | | | 169 |
| | | 0000000000 | 44141414 | O CONTINUISM | | 100 |
| | SEQ ID NO:4472 | | | | | |
| 30 | SEQUENCE LENGTH: 132 | | | | | |
| | SEQUENCE TYPE:nucleio | acid | | | | |
| | TOPOLOGY: linear | | | | | |
| | CLONE: HUMGS05311 | | | | | |
| | SEQUENCE DESCRIPTION: | • | | | | |
| 35 | GATCACTTGA ACCCAGGAGT | TTAAGTCCAG | TCTGAGCAAG | GCAGTGAGAC | CCTGTCTCTA | 60 |
| | AACAATAAAA ATTAAAATAA | | | | | |
| | TCAAAACTTA AA | | | | | 132 |
| | | | | | | |
| 40 | SEQ ID NO:4473 | | | | | |
| | SEQUENCE LENGTH: 328 | | | | | |
| | SEQUENCE TYPE:nucleic | acid | | | | |
| | TOPOLOGY: linear | | | | | |
| 45 | CLONE: HUMGS05312 | | | | | |
| 70 | SEQUENCE DESCRIPTION: | | | | | |
| | GATCACCAGG CTGCCCAAGG | | CTACAAGACT | TTTGTCCACG | NGGNTCCTGC | 60 |
| | CAAGCCTGAG GGCACCCGTC | | | | | |
| | GACAGAGACT GGAGCCCANG | | • | | | |
| 50 | GCGACACGGC CTCCCGAGGA | | | | | |
| | TGACTGCTGG GAAACCCTTT | | | | | |
| | | | · - | | | |

| | TCATGAACCG CATNCTATTT | AAGGGAAA | | | | 328 |
|----|--|--------------------------|--------------------------|--------------------------|--------------------------|------------------|
| 5 | SEQ ID NO:4474 SEQUENCE LENGTH:307 SEQUENCE TYPE:nucleic TOPOLOGY:linear CLONE:HUMGS05313 | acid | | | | |
| 10 | SEQUENCE DESCRIPTION: GATCTGGACA TGCTGTNACA | | | | | 60 |
| 15 | TTTCTAAGAG TTGGGAGGGG GAAATTGATA TTCAAAGTAT GATGTAAATT TTGTCTGATT ACCTGAATTT TCCATAACTT ACCCAAA | TTTAGGCAAA TGTATTGTNC | GCCAGTCAAA TTTTCATTTG | ATGCTTTCAT CCTTCTTAAC | GATATTTTGA TTTATATGTG | 180 240 |
| 20 | SEQ ID NO:4475 SEQUENCE LENGTH:133 SEQUENCE TYPE:nucleic TOPOLOGY:linear | acid | | | | |
| 25 | CLONE:HUMGS05314 SEQUENCE DESCRIPTION: GATCGTAAAA ACATGTCTTA CATTGGACAT TCCATTTTAC TTTGTTCTGC AAA | | | | | 60 120 133 |
| 30 | SEQ ID NO:4476 SEQUENCE LENGTH:130 SEQUENCE TYPE:nucleic | acid . | | | | |
| 35 | TOPOLOGY: linear CLONE: HUMGS05315 SEQUENCE DESCRIPTION: GATCAACTGT CCTTAACCAC AAGNCAGAGA TGACGTTATC | | | | GAGGNCCNAT | |
| 40 | TNGGACTATN | | · | | | 130 |
| | SEQ ID NO:4477 SEQUENCE LENGTH:105 SEQUENCE TYPE:nucleic TOPOLOGY:linear CLONE:HUMGSO5316 | acid | | | | |
| 50 | SEQUENCE DESCRIPTION: GATCAGCCAC ACAACTGTTT TAAAGCTATA AATTTACTCA SEQ ID NO:4478 | | | | | 60 105 |

| 5 | SEQUENCE LENGTH:159 SEQUENCE TYPE:nucleic acid TOPOLOGY:linear CLONE:HUMGS05318 | |
|----|---|--------|
| 10 | SEQUENCE DESCRIPTION: GATCTGGGAC AGANTTCACT CTCACCATCA GCAGTCTGCA ACCTGAAGAN TTTNCAACTN 6 ANTACTGTCA ACAGAGTTAC AGTGCCCCGT GGACGCTCGG CCCAGGGACG AAGGTTGGAC 12 GTCAAACGAA CTGTGGCTGC ACCNTCTNTT TTCATCTTN 15 | 20 |
| 15 | SEQ ID NO:4479 SEQUENCE LENGTH:170 SEQUENCE TYPE:nucleic acid TOPOLOGY:linear CLONE:HUMGS05319 SEQUENCE DESCRIPTION: | |
| 20 | OLDOWGALLA GALLONDO AND | |
| 25 | SEQ ID NO:4480 SEQUENCE LENGTH:73 SEQUENCE TYPE:nucleic acid TOPOLOGY:linear CLONE:HUMGS05320 | |
| 30 | SEQUENCE DESCRIPTION: GATCATGTAA AATTACAGTA CTCAACCCTT CTAGCAAAGT ATTTGGNTGA AAAATAAACT 6 | 0 3 |
| 35 | SEQ ID NO:4481 SEQUENCE LENGTH:130 SEQUENCE TYPE:nucleic acid TOPOLOGY:linear CLONE:HUMGS05321 | |
| 40 | SEQUENCE DESCRIPTION: GATCCGCAGA GGGTGGTTGG GATACACCGG ATACCTCTGC TCTCATTGCT TGTTTCCAAA 6 TGCTCTATGG ACATTTGTGT GCTAAATCCT ATTAAATAAA AAAGACGGGT TAAAACCCAG 12 ATGCTGTAAA | |
| 45 | SEQ ID NO:4482 SEQUENCE LENGTH:56 SEQUENCE TYPE:nucleic acid TOPOLOGY:linear | |
| 50 | CLONE: HUMGS05322 SEQUENCE DESCRIPTION: | R |

| ٠ | SEQ ID NO:4483 SEQUENCE LENGTH:90 SEQUENCE TYPE:nucleic acid | | | | |
|-----|---|---------------------|-----------------------------|------------|-----------|
| 5 | TOPOLOGY:linear CLONE:HUMGS05323 SEQUENCE DESCRIPTION: | | | | |
| 10 | GATCTTGAGA GTATGTTCTT ACTCATTTCT (AGTTTTAATA AATGCATGTT AAAATTTAAA | GTAATTGCAG | TAGTGTAGTC | ATCTGCATAT | 60 90 |
| | SEQ ID NO:4484 SEQUENCE LENGTH:58 SEQUENCE TYPE:nucleic acid | | | | |
| 15 | TOPOLOGY:linear CLONE:HUMGSO5325 SEQUENCE DESCRIPTION: | | | | |
| | GATCACGCCA TTGCACTCCA GCCTGGGGGA C | CAAGAGTGAA | TCTGTGTCTC | ACCAGAAA | 58 |
| 20 | SEQ ID NO:4485 | | | | |
| | SEQUENCE LENGTH: 115 | | | | |
| | SEQUENCE TYPE:nucleic acid | | | | |
| 0.5 | TOPOLOGY:linear | | | | |
| 25 | CLONE: HUNGS05326 | | | | |
| | SEQUENCE DESCRIPTION: | | | | |
| | GATCTGGTGA CTGTNCTCTC CCTGTTTTCC T TAGCTTGAGA CACACACAGA CACTGTGTAC T | | | | 60 115 |
| 30 | | | dollarian | ACAUN | 110 |
| | SEQ ID NO:4486 | | | | |
| | SEQUENCE LENGTH: 201 | | | | |
| | SEQUENCE TYPE:nucleic acid TOPOLOGY:linear | | | | |
| 35 | CLONE: HUMGS05327 | | | | |
| | SEQUENCE DESCRIPTION: | | | | |
| | GATCATTTCT ATGTGTGTGG GTAATCTGGT C | | | | 60 |
| | CTTGGAAATT CCTTAATGTT TATTAGCTTC T | | | | |
| 40 | TTGGAGATTT GAGTTCTTCT TTTCATGGCT T TAAATCCTTG CCAGACTTAA A | TTATTCACT | GTGACTAATA | | - |
| | TABLE CONTROLLING A | | | | 201 |
| | SEQ ID NO:4487 | | | | |
| 45 | SEQUENCE LENGTH: 274 | | | | |
| | SEQUENCE TYPE:nucleic acid TOPOLOGY:linear | | | | |
| | CLONE: HUNGS05328 | | | | |
| | SEQUENCE DESCRIPTION: | | | | |
| 50 | GATCTAGTTC GTGTATAACT GTTAACTCAT T | ተተፈር ል ተተ ተተ | ተተ እርተተ <u>ር</u> ርተተ | CAATCTTAT | 60 |

| | CAGATTATAA ATATAGAGGC ATTTCTNCAT CCTGTTTAAT GTTTATTTTG TAATCATTGG 12 AGTATGTGAA AAATTTTNGT TTGTTTTGCT TTGGTCTCTA AGTAAACATG TTCAGCAAAG 18 |
|----|---|
| 5 | TATTININTI TINAAGAAAT AAATNGNGNI TIGTATGTCC INCCITITAG GITTGAGGCA 24 AAGAGGAGAI GGGAANCCAA AGGCAACANG GGNN 27 |
| | SEQ ID NO:4488 |
| | SEQUENCE LENGTH:332 SEQUENCE TYPE:nucleic acid |
| 10 | TOPOLOGY: linear |
| | CLONE: HUMGS05329 |
| | SEQUENCE DESCRIPTION: |
| | GATCINIGCO AIGCAGAGCA ICTICCAGAA GACCAGGACI CIGGGAGGCG AGGAGAGCIG 60 |
| 15 | AGCTGGGCCA CCTGGTCTCA GCCACCTGTT CTTGGCTCCC CAACAGACTC TGCACTGCAC |
| | CATGGGAGGC TCCTGGGATG TTTGGAAGAA GAAACGGGCT TCTCCTTGAG GGGGTAGTGG 180 |
| | AGGGATTTTT TCCCCAGCAG TGGCCTCTGA GAGTNNNTCA GTGCCTGGTG GGGCAGGGCA 240 |
| • | GGCCTCTTGG AGCACCTCCT CCCTGGNTCA GGGCCTGGAT GCAGGTGCCA AGCTCTCCAT 300 |
| 20 | GTGGTGCATG TTNGACCCAG CCACGTGGTG AN 332 |
| | SEQ ID NO:4489 |
| | SEQUENCE LENGTH: 155 |
| 25 | SEQUENCE TYPE: nucleic acid |
| 25 | TOPOLOGY:linear |
| | CLONE: HUMGS05331 |
| | SEQUENCE DESCRIPTION: |
| | GATCTTAACT ATGAGTAATT CACTATCAAG AGCTAATTAT TTGAAAAAAT ATAAGATGTT 60 |
| 30 | ATGGAGCAGA TAGCTCAAGC AGTTAAAAGA AATTNTGCAA CTNTAATTCT NTTCCTTATT 120 |
| | TTAATACTAC TACTTAATAA ATAGTATTTG CTAAA 155 |
| | SEQ ID NO:4490 |
| 35 | SEQUENCE LENGTH: 115 |
| | SEQUENCE TYPE: nucleic acid |
| | TOPOLOGY: linear |
| | CLONE: HUMGS05332 |
| 40 | SEQUENCE DESCRIPTION: |
| 40 | GATCAAATCA GAGATTGACA GCCTGTGGAG GGTGCTGAAC TATACAGAAT TAGACACAAC 60 |
| | TATGTCATTA TTTTTTGTAC CTACTGNTCA GAATAAAAAC ACTTGAAATA TGAAA 115 |
| | SEQ ID NO:4491 |
| 45 | SEQUENCE LENGTH: 197 |
| | SEQUENCE TYPE:nucleic acid |
| | TOPOLOGY: linear |
| | CLONE: HUMGS05333 |
| 50 | SEQUENCE DESCRIPTION: |
| | GATCCCTTCT GTTGGTGTCA TGTTGTAAAC ATTTCTTTCA ATAAACTAAA GAAAAATTAT 60 |
| | TAAAGGAACA CATACCTTTG GTTAAATAGT CTAGACTAAA AGATTGAGAA GTTACTTTCC 120 |

| | ATTGCTATCT ATTGATAATT TAGACATTGA GTTCAAATTG CCTTCATTTT ATGATAAATA ATGATTTAAC TGACAAA | 180 197 |
|----|---|------------|
| 5 | SEQ ID NO:4492 SEQUENCE LENGTH:79 SEQUENCE TYPE:nucleic acid TOPOLOGY:linear CLONE:HUMGS05334 | |
| | SEQUENCE DESCRIPTION: GATCATTITT ATTIGTAAA TATTACCTAA CTTTACATAA ACTATATCAT AATAAACTAT TTTTGCATCA CCCTTTAAA | 60 79 |
| 15 | SEQ ID NO:4493 SEQUENCE LENGTH:377 SEQUENCE TYPE:nucleic acid TOPOLOGY:linear | |
| 20 | CLONE: HUMGS05335 SEQUENCE DESCRIPTION: GATCTCCAAG CTGAAACTTA CACGTTAAAA CTTTTGCCTG TAAGAATTTG CACATGAATG | 60 |
| 25 | TTAATGGAAA ACACAAAACT TAAGATGGCC CAAAACNAAA GCCACAAACA GTTCATCATT TGGTGCTTAG TCTTTGTAAG GGCTCTCTGT GGTTTGACTT ACTCCAGCTA CCGTTAGATG AGGGCAAATC ACCTTAGAAC ATGTTCATTT GATTCATAAC ANGGAAAATT GGGTCTATGA TTTTTNGCCA ATCTTAGCCT AAAAGAAATT GCTTTAGCTT CTGGTCAGCA CTGATTAAAA | 180 240 |
| 30 | TGTGAATAGT GAAGTGGCTA TCCTAAACTG GTTTATCTCC ACCCACACTA TCATAGANTT CTTAGGTAAT ACAATTN | 360 377 |
| | SEQ ID NO:4494 SEQUENCE LENGTH:170 SEQUENCE TYPE:nucleic acid | |
| 35 | TOPOLOGY:linear CLONE:HUMGS05336 SEQUENCE DESCRIPTION: GATCAAACAC ACACACCTAT ACACATACAT ATTAANATGC AGAGGATTTT AAATAATTGC | 60 |
| 40 | AAATGTCTTG TGGCTGTTTT ATTTCTACAA AATTCTGTAA GATGTATACC AGAAAACATA ATAAAGATAA GCTCAGTTCT TCATTGGGNA AAANTATTTT TAAGNNNNNN | |
| 45 | SEQ ID NO:4495 SEQUENCE LENGTH:57 SEQUENCE TYPE:nucleic acid TOPOLOGY:linear | |
| 50 | CLONE: HUMGS05337 SEQUENCE DESCRIPTION: GATCTGTAAT GTGTCAAAGC ATTTTTCACT TTTCAAATAA AGATACCTAT AATGAAA | 57 |
| 50 | SEQ ID NO:4496 | ٠ |

| | SEQUENCE LENGTH: 373 | | | | | |
|----|-----------------------|------------|------------|------------|------------|-----|
| | SEQUENCE TYPE:nucleio | acid | | | | |
| | TOPOLOGY: linear | | | | | |
| 5 | CLONE: HUMGS05339 | | | | | |
| | SEQUENCE DESCRIPTION: | | | | | |
| | GATCAGAATC TNCCAACTTT | AGAGGTGCAA | TGGAAGACAC | TACGCTACTT | GGTTGAGCCT | 60 |
| | GGTGAAGAAT GTATTAATGA | | | | | |
| | GGAGATGGAA GATGGTTTTN | TATATATNTN | GGAACTTTAG | TTCCTCTGTA | AGACGAAAGA | 180 |
| 10 | GGAGAGCTAT GTTTNNTNTC | | | | | |
| | ATTTAGACAN CATAGCTGAC | | | | | |
| | CCCTCACACA TTATAGGGGC | | | | | |
| | TTTANGGNGN CCN | | | | | 373 |
| 15 | | | | | | |
| | SEQ ID NO:4497 | | | | | |
| | SEQUENCE LENGTH: 368 | | | | | |
| | SEQUENCE TYPE:nucleio | acid | | | | |
| 20 | TOPOLOGY:linear | | | | | |
| 20 | CLONE: HUMGS05340 | | | | | |
| | SEQUENCE DESCRIPTION: | | | ٠ | | |
| | GATCTGAAGA AGTTGCTGTT | CTGAAACAGA | AGTTGGAGCG | ATGTCATTCT | GCTGAGCTTG | 60 |
| | CACTTAACGT AATCACGAAG | TAGAGGAAAG | GCTATGNAGT | TGATGATTAC | GTCTCAAAGA | 120 |
| 25 | AATCCAAACA TGAGGAGGAA | | | | | |
| | TTGAAGTTGA TTTCTCAATG | CTAACTAATC | AAGAGAAGTA | GGAAGCATAT | CAAACGTTTA | 240 |
| | ACTITATITA ANANGTATAA | TGTGAAAACA | TAAAATATAT | TANNECTTTN | CTATTGTTTT | 300 |
| | CTTTCCCTTT CACAGTAACT | TTATGTNAAA | TAACCATCTT | TCAAAAGGGC | TANAANNNAN | 360 |
| 30 | ANANNTNN | | | | | 368 |
| | | | | | | |
| | SEQ ID NO:4498 | | | | | |
| | SEQUENCE LENGTH: 150 | | | | | |
| | SEQUENCE TYPE:nucleio | acid | | | | |
| 35 | TOPOLOGY: linear | | | | | |
| | CLONE: HUMGS05341 | | | | | |
| | SEQUENCE DESCRIPTION: | | | | | |
| | GATCACATCA CCTCTCTGCC | TCAGTTTCCC | CATCTGTAAA | ATGGGAGAAT | AATACTTGCC | 60 |
| 40 | TACCTACCTC ACAGGGGTG1 | TGTGAGGATT | CATTTGTAAT | TTTTTTTTT | TTTTTTAANA | 120 |
| | GNGTTTTAAN GNNTAAAAAN | CAGTNAAATN | | | | 150 |
| | SEQ ID NO:4499 | | | | | |
| 45 | SEQUENCE LENGTH: 109 | | | | | |
| 45 | SEQUENCE TYPE:nucleio | acid | | | | |
| | TOPOLOGY: linear | · | | | | |
| | CLONE: HUMGS05342 | | | | | |
| • | SEQUENCE DESCRIPTION: | | | | | |
| 50 | GATCTCCATC ATTTCTTACA | | CCTCAAGCAA | TTCGACATCT | CAAGTGAAGA | 60 |
| | CATGGCCCCT GAAGGGCAAT | | | | | 109 |

| | SEQ ID NO:4500 | |
|----|--|---------------------------------------|
| | SEQUENCE LENGTH: 315 | |
| 5 | SEQUENCE TYPE:nucleic acid | |
| | TOPOLOGY:linear CLONE:HUMGS05343 | |
| | SEQUENCE DESCRIPTION: | |
| | GATCTACAGG NCAAAGGGAG GGAGCAAGCC CTACTCGGAT GGGGC | ACGGA CTGTCCACCT 60 |
| ** | TTNCTAATGT GTGTTGTCAG CCTGTGCTGT GGCATAGACA TGGAT | |
| 10 | GAGACTGGGG TGGCCTCAAG AGCACACAGA GAAGGGAAGA TGGGG | |
| | AGCCCCTGCC TGGNTTGGGG GCACTCAGCC ACGACCAGCC CCTTC | |
| | CTATTTATTG GGNNNNGNTG AAGAGGCATC CTGCCTGGNT GGGNC | AGCCC CTTCAGCCCC 300 |
| | TTNTNCCCTN CCCGN | 315 |
| 15 | | |
| | SEQ ID NO:4501 | |
| | SEQUENCE LENGTH: 157 | |
| | SEQUENCE TYPE: nucleic acid | |
| 20 | TOPOLOGY: linear | |
| | CLONE: HUMGS05344 | |
| | SEQUENCE DESCRIPTION: | |
| | GATCAGACTG TTGCTTTCGC ATGNTGTATG TAGTGTCTCA TGNCT | · · · · · · · · · · · · · · · · · · · |
| 25 | TTATAGTATC TGTACTCCTT GTATTTTTCA AGAGCTATTT TGTAA | |
| | CTCCATTGAA AACACAATAA AAAAAAANCA GCACAAA | 157 |
| | SEQ ID NO:4502 | |
| | SEQUENCE LENGTH: 397 | |
| 30 | SEQUENCE TYPE: nucleic acid | |
| | TOPOLOGY:linear | |
| | CLONE: HUMGS05345 | |
| | SEQUENCE DESCRIPTION: | |
| 35 | GATCTAGTCT TTACTTTCAG TTGTNTGTTA GGTCCATTCT GTTTAG | CTAGA CGGATGTTAA 60 |
| | TAAAAACTAT GCGAGCCTGA NTGANTTCTC AGCCAAATTT AGTCT | TGTNT CTCATCTTGA 120 |
| | TTGGNTTAAT TCCAAATTCT AAAATGATTC ANTNCACAAT AGCTC | |
| | TTGCCTTACT TTGCCCAGTT CCTAAGACTG TGAGTTGTCA AATCC | |
| 40 | TTCAAGGAGC AAGAGGCGCA TTTNCTCCGT GTCATGTAAT TNNNC | |
| 40 | CACTCTGTAC CCTGTGGAGT ACTCAGTACC TNTGGTTTGA NGTTG | |
| | AAAAATCCCT TAAAAANNAA ACCCTTTAAG GTGTGGN | 397 |
| | SEQ ID NO:4503 | |
| | SEQUENCE LENGTH:84 | |
| 45 | SEQUENCE TYPE:nucleic acid | |
| | TOPOLOGY: linear | |
| | CLONE: HUMGS05346 | |
| | SEQUENCE DESCRIPTION: | |
| 50 | CATCACACT CTTALCTATC CCCCALCTAL CACCTAATTC ATTCA | TTOOL TOTHTOOPLE SO |

| | TAAATAAAGA GATTGAGCAA | GAAA | | | | 84 |
|----|--|--|--|--|--|--------------------------|
| 5 | SEQ ID NO:4504 SEQUENCE LENGTH:316 SEQUENCE TYPE:nucleic TOPOLOGY:linear | acid | | | | |
| 10 | CLONE:HUMGS05347 SEQUENCE DESCRIPTION: GATCTNAACC CCAGACATCA CCTTNAAACC CAGGAGAGCT TGCCCTGCCT CCCCAGTAAT TACATATGGA TTTTTTNAGN CAGTGTTAGA AGTTTGTNAT | GGCAGCCCAT TGTNAATGCN GNTTAGATTT | GCAGCCCACC ATCTTCTTCC AACCAGCTTT | CCCAGCATGC TTCTNTTTTT TAAATCTCTC | AACTGCCCCC TATAATATTG TTTNNTCTAA | 120 180 240 300 |
| | GGNAAAAAA AANAAN | | | | | 316 |
| 20 | SEQ ID NO:4505 SEQUENCE LENGTH:218 SEQUENCE TYPE:nucleic TOPOLOGY:linear | acid | | | | |
| 25 | CLONE:HUMGS05349 SEQUENCE DESCRIPTION: GATCAAAGTG TTAGGGGAAA TAAATNCACT TCATCAAAGC TTTNCCTGAA TTCAGGAAGT GTACTGCAGC TGTAGGTGAA | TAAGAAGTCA GTCTTCTGAA | CAGGAATTGT TAGCAGCTAG | NCTCAGGTTT | TTAAAAAAAT CGGTGTGTGT | 120 |
| 30 | SEQ ID NO:4506 SEQUENCE LENGTH:297 SEQUENCE TYPE:nucleic | acid | | | | |
| 35 | TOPOLOGY:linear CLONE:HUMGS05350 SEQUENCE DESCRIPTION: | | annananaa | a a i mana a ma | A A GT C A G CT C | 60 |
| 40 | GATCAGCCAG TTACCTTCTC TCATCTTCTA TAAACTAATA TTAAAGTAAC AGTTTGGTAT CTAAGTTTAG AATTNATATT CCACTATAAA GAATTTNATT | CAGGAATTCT GTTTATTGTA AGGCANCTAT | TTCCAAAGCA GATAAATNAT GATTTGAGTG | ATGTCTAAAA TTTTNAGGCC GTTATNCATT | ACTCTTTTTT TTCATTTTAG GAGTAANTTT | 120 180 |
| 45 | SEQ ID NO:4507 | | | | | |
| | SEQUENCE LENGTH: 322 | aaid | | | | |
| | SEQUENCE TYPE:nucleic TOPOLOGY:linear CLONE:HUMGS05351 | acid | | | | |
| 50 | SEQUENCE DESCRIPTION: | CCAGAGGCTT | CTGGTTCACC | GCCCTGATTC | CACAGATGTG | 60 |

| | GGTCAGAGGC AGAGATGGAA | GTTGGAATGG | ACAAGCCTGC | CCTCTCCTCA | GCTCTCCATG | 120 |
|----|---|------------|-----------------|------------|------------|-----|
| | GCTCTGTCCT CAGGCTGTTT | CTGCAATTTG | ACATGAGGCC | TGGCCCCAGG | GAAACCAGTG | 180 |
| _ | GGGCCTCATC TCCTCCCTGT | GCTGCTCTGA | GGTGGAGCCT | TCTNAGGGTC | AGTCCAGCTC | 240 |
| 5 | TGGAGNCCCT CTCCAGCTCG | GTCACCAAAG | CTGTCTGGTC | CCAGGGCGGT | GTGGAGTGAC | 300 |
| | AGGCACGGCA GCCCAATNCN | GN | | | | 322 |
| | 000 ID NO 4500 | | | | | |
| | SEQ ID NO:4508 | | | | | |
| 10 | SEQUENCE LENGTH: 137 | | | | | |
| | SEQUENCE TYPE:nucleic | acid | | | | |
| | TOPOLOGY: linear | | | | | |
| | CLONE: HUMGS05352 | | | | | |
| 15 | SEQUENCE DESCRIPTION: | VORBOOGE 4 | 0.40.40.00.40.1 | CMCMCMCMC. | | |
| | GATCGCGCCA TTGCACTCCA | | | | | |
| | ATAATNAATT AATTAATTAA | TTAAAAAATA | AACAGTGGGT | TAGTTATCTC | AAAAGTGGGC | |
| | TTGTTATAAA ANCNNGN | | | | | 137 |
| 20 | SEQ ID NO:4509 | | | | | |
| | SEQUENCE LENGTH: 285 | | | | | |
| | SEQUENCE TYPE: nucleic | acid | | | | |
| • | TOPOLOGY:linear | | | | | |
| 25 | CLONE: HUMGS05353 | | | | | |
| 25 | SEQUENCE DESCRIPTION: | | | | | |
| | GATCATAAGA CTGTCATGTA | AGAGGTGCTC | TCCTGGCACC | CAGAGAAAAG | GAGCATCCTT | 60 |
| | ACCTCCAAAA GCACAGGGAC | ACAAAGAGGA | ATCTAAACAA | ACAGGCCTCT | NAGTTTCCCC | 120 |
| | CAGTTTATTA CATTTAGCTT | GTTCACACTT | TGCCCTATGA | CATTNCTACA | TCACTGGNTG | 180 |
| 30 | CTCTTCATCA AACCTACTAT | AANNNNCATT | CAAGTTCAAC | TGTTTCTTTG | GGCCTTNNTT | 240 |
| | NNCTTATGGA GGCCCTCGTG | TCGTGTAAAA | CTTNTATTNG | GTNAN | | 285 |
| | SEQ ID NO:4510 | | | | | |
| | SEQUENCE LENGTH: 327 | | | | | |
| 35 | SEQUENCE TYPE: nucleic | aaid | | | | |
| | TOPOLOGY: linear | aciu | | | | |
| | CLONE: HUNGSO5354 | | | | | |
| | SEQUENCE DESCRIPTION: | | | | | |
| 40 | GATCAGCAGA GTGGAGGCTG | ACCATCTTCC | CATTATTAC | TCCATCCAAG | CTCTACAACT | 60 |
| | CCCGGTCACC TTCGGCCAAG | | | | | |
| | TGTNTTCATC TTGCCGCCAT | | | | | - |
| | · · · · · · · · · · · · · · · · · · · | | | | | |
| 45 | CCTGCTGAAT AACTTCTATC CCAATCGGGT AACTCCCAGG | | | | | |
| 45 | | | AUAUUAUUAU | AULAAUUAUA | UCACCIACAG | |
| | CCTCAGCAGC ACCCTGACGC | IGAGUNN | | | | 327 |
| | SEQ ID NO:4511 | | | | | |
| 50 | SEQUENCE LENGTH: 194 | | | | | |
| | SEQUENCE TYPE:nucleic | acid | | | , | |
| | TOPOLOGY:linear | | | | | |

| 5 | CLONE:HUMGS05355 SEQUENCE DESCRIPTIO GATCCTCCAC TCCAGAGO CCGCAGCTGT TTGGGGTG ACCTGTGTCA GTCCATGA GATGTCCCAT CAAA | AC CTGAGAAGGC GG ACATTTCTGT | ACTTCTCGAT | TTGCTTATGG | CTCAGCCATT | |
|----|--|---|--|--|--|-------------------|
| 10 | SEQ ID NO:4512 SEQUENCE LENGTH:106 SEQUENCE TYPE:nucle TOPOLOGY:linear | | | | | |
| 15 | CLONE:HUMGS05356 SEQUENCE DESCRIPTIO GATCACTTTT CCCTGTCT GGTGTCAAAG TGTAANTA | AA ACTCCAGGNT | | | ACAGAACTCT | 60 106 |
| 20 | SEQ ID NO:4513 SEQUENCE LENGTH:89 SEQUENCE TYPE:nucle TOPOLOGY:linear | ic acid | | | | |
| 25 | CLONE: HUHGS05357 SEQUENCE DESCRIPTIO GATCTCACCA CTGTACTC ATAAAAACCC TGAATATC | CA GCCTGGNTGA | CAGAGCGAGA | CCCAGACTCA | AAAATAAAA | 60 89 |
| 30 | SEQ ID NO:4514 SEQUENCE LENGTH:366 SEQUENCE TYPE:nucle TOPOLOGY:linear | | | | | |
| 35 | CLONE:HUMGS05359 SEQUENCE DESCRIPTIO GATCTCTATA CCTCAGCT TCATAGTGCN NTTATAAC | TC TTCATCTGCA | | | | 60 120 |
| 40 | GTATATATAT NANCTATT GTTAGTTCAT GCTGCACT TTTNACAGTT TATCATGT CAAAAAGGAG TACTATAN AATTTN | AG TATTTTGCAA AC CATATTGTCC GC ATCTGTATCA | TTTGGGGATA TTTTGGGGCT CAGGNGTATT | TTGAAAATTA CTTCAATGGG TTGGCAAAAT | GAAATTGCNT TGAAATTCCA GATTCTGTNC | 180 240 300 |
| 45 | SEQ ID NO:4515 SEQUENCE LENGTH:313 SEQUENCE TYPE:nucle | | | | | |
| 50 | TOPOLOGY: linear CLONE: HUMGS05360 SEQUENCE DESCRIPTIO | | | | | |

| | GATCTCTGGT AAAAAGCAAC | ATCTGAGAAA | ATTNCTTGTT | TTTAGGAACC | TGTGTACATT | 60 |
|----|--|---------------------|-----------------|------------|------------|-----|
| | CATACTTAAT TCTNCCAATN | ATGCTTTTCA | GTTTTTTGGA | TTAACACTCA | AAAGTAACAA | 120 |
| | GTCCTCAAAA TTAGGTTTGT | CCTGTTGTTT | TAAGTGGACC | TTTGGCAAGA | GATTTCTAGT | 180 |
| 5 | GAAGCTTGAT TCTNAGTACT | TTCCTCATGT | ATTAAAAAGA | GGCTGGAGGA | GGGAACCTGG | 240 |
| | GACGTGGAGA GTGAGGAGTG | ATAGCCTGAG | GTTCTTGGTT | TGCCAACCTG | GGGAAACCCT | 300 |
| | GTCTCTACTT AAA | | | | | 313 |
| | | | | | | |
| 10 | SEQ ID NO:4516 | | | | | |
| - | SEQUENCE LENGTH: 73 | | | | | |
| | SEQUENCE TYPE:nucleic | acid | | | | |
| | TOPOLOGY:linear | | | | | |
| | CLONE: HUMGS05361 | | | | | |
| 15 | SEQUENCE DESCRIPTION: | | | | | |
| | GATCACTAAA CTATCTCCCC | TCTTGCTGAA | GTTCTTTGTA | GTAATAGCTC | TTTAAAATT | 60 |
| | GTTTATTAAT AAA | | | | | 73 |
| | | | | | | |
| 20 | SEQ ID NO:4517 | | | | | |
| | SEQUENCE LENGTH: 247 | | | | | |
| | SEQUENCE TYPE:nucleic | acid | | | | |
| | TOPOLOGY: linear | | | | | |
| 25 | CLONE: HUMGS05362 | | | | | |
| | SEQUENCE DESCRIPTION: | A A C C C A A C T C | ANTTA A A A C A | CCTTC | CATGACGCAG | 60 |
| | GATCTTTTAA AAAGAGATTA GGAGAATTGC GTCATTTAAA | | | | | • • |
| | AGATTAATNN GGAGTGGTAG | | | | | |
| | ACTGGANGAC AGAAGTACGG | | | | | |
| 30 | | UAAUUCUAAU | AAAAUANIAU | MUMMUMIMUU | UAAATTNUAA | 247 |
| | GNTAAAN | | | | | 271 |
| | SEQ ID NO:4518 | | | | | |
| | SEQUENCE LENGTH: 95 | | | | | |
| 35 | SEQUENCE TYPE:nucleic | acid | | | | |
| | TOPOLOGY: linear | | | | | |
| | CLONE: HUNGS05363 | | | | | |
| | SEQUENCE DESCRIPTION: | | | | | |
| 40 | GATCGCAGAA CATACTGTAT | TTTNACTATA | TCTTTTTTT | TAAATCTGAC | AAACTTTTTT | 60 |
| | NCTTTNATTT NAATTGACAT | AATTGTACAT | ATAAA | | | 95 |
| | | | | | | |
| | SEQ ID NO:4519 | | | | | |
| 45 | SEQUENCE LENGTH: 134 | | | | | |
| = | SEQUENCE TYPE:nucleic | acid | | | | |
| | TOPOLOGY: linear | | | | | |
| | CLONE: HUMGS05364 | | | | | |
| | SEQUENCE DESCRIPTION: | | | | | |
| 50 | GATCTGCTTT GGAAATTAAT | | | | | |
| | TAAGTAAACA TAACATTACT | TGGAGGGTTG | CANTITCTAA | GTGAAACTGT | ATTTGANACT | 120 |

| | NTTNAGTNTA CTTN | 134 |
|------------|---|------------|
| 5 | SEQ ID NO:4520 SEQUENCE LENGTH:269 SEQUENCE TYPE:nucleic acid TOPOLOGY:linear | |
| 10 | CLONE:HUMGS05365 SEQUENCE DESCRIPTION: GATCTGGCAC TGAGCTTTTT GTCACTGAAC CTTCCCGATG CCAGCTGGGC TCTTGGACTC CCCTCTTCCT CAAGGGTAGA TGAGAGGAAC GATNNNTAGA GGTTGGCTGT GGGTCCTGGG TACCACCTTC TGAGCCTCAG TTTCCTCATC TGTAAAGTGG GGAGAAAAGT CTGTTTGCCT CAGGAGTGTG AGGACTACAC TAGTGAAAGC NCCTGGCGGG CAGCCGGCGA TGCCCAATAA | 120 180 |
| 15 | ATGTGTGNTT TGCTGTTTGT TAAGTGAAA | 269 |
| 20 | SEQ ID NO:4521 SEQUENCE LENGTH:189 SEQUENCE TYPE:nucleic acid TOPOLOGY:linear CLONE:HUMGS05366 SEQUENCE DESCRIPTION: | |
| 25 | GATCAGTTTG TAATTTTTTT NCTCCTTGAA GGCACAAAAT AATTGGTTTN AGGTATGTAA AACACTAGAG GTCAACCTTA CATAGTATAT AGAACTNATG GGTTTACCCA GCTACCCAGT AGCATAACTT TNCACAGCTC GGGGATGAAT TAACATGGCT GAAATAAAAC TAAAAGTATG GTTTTNAAA | 120 |
| 30 | SEQ ID NO:4522 SEQUENCE LENGTH:79 SEQUENCE TYPE:nucleic acid TOPOLOGY:linear CLONE:HUMGS05367 | |
| | SEQUENCE DESCRIPTION: GATCACAGTA CACCATATGC ACTCTGGTAC CTTAATTTTT TTTTATAAAT AATAAAAGTG AATATTGAAG CTTCTTAAA | 60 79 |
| 40 | SEQ ID NO:4523 SEQUENCE LENGTH:255 SEQUENCE TYPE:nucleic acid TOPOLOGY:linear | |
| 4 5 | CLONE:HUMGS05368 SEQUENCE DESCRIPTION: GATCTGTTGA ATTTGGGAAG CCTCCAGTTT TAATAAAATT TTTTTATTAT GGTGGAAACN | 60 |
| 50 | TGTCTGTAAA NCTTAGGACT ATAGAAATGC AAAGAATAAA GANCTGAGGG AGTTACACAC ATTTGTAGTC AGAAATTAAG TTCAAAANAT AATTTAGGTC ATTTGCATTT TTTAGTATGC AAAATAAATG GAAAANTTAA NGTGCAATAN ANNTATAATT NGGGAAATGA ATGCAGTAAA | 120 180 |
| | NTTGANAACA TTGAN | 255 |

| 5 | SEQ ID NO:4524 SEQUENCE LENGTH:51 SEQUENCE TYPE:nucleic TOPOLOGY:linear CLONE:HUMGS05370 SEQUENCE DESCRIPTION: GATCTGTCAG GGCCACTTAG | | TTCTTCCCAA | CTGCAGACAA | A | 51 |
|------------------------|---|------------|------------|------------------|------------|-----|
| 10 | | | | | | |
| 15 | SEQ ID NO:4525 SEQUENCE LENGTH:353 SEQUENCE TYPE:nucleic TOPOLOGY:linear CLONE:HUMGS05371 SEQUENCE DESCRIPTION: | acid . | | | | |
| | GATCCGCATC GACTTGGCCG | TGGGCGACGT | GGTCAAGACC | TGGCGTTTCA | GCAACATGCG | 60 |
| | CCAGTGGAAT GTCAACTGGG | ACATCCGGCA | GGTGGCCATC | GAGTTTGATG | AACACATCAA | 120 |
| 20 | TGTGGCCTTC AGCTGCGTGT | NTGCCAGCTG | CCGAATTGTA | CACGAGTATA | TCGGGGGCTA | 180 |
| | CATTITCCTG TCGACGCGGG | AGNGGTCCCG | TGGGGAGGAG | CTGGATGAAG | ACCTCTTCCN | 240 |
| | GCAGCTCACC GGGGGNCATG | AGGNCTTCTG | AGGGCTGTTT | GATTGCCCCT | GCCNTGCTNA | 300 |
| | ACAACCTGTN ACAGGCACTT | CCAAGGCCAG | AACCACAGGG | GCTNACTNTC | GAN | 353 |
| 30 | SEQ ID NO:4526 SEQUENCE LENGTH:174 SEQUENCE TYPE:nucleic TOPOLOGY:linear CLONE:HUMGS05372 SEQUENCE DESCRIPTION: | acid | | | | |
| | GATCTGGAAT AATTATGGTA | AAATAATAGT | ATTTGCTAAG | ACTAGATGAT | TGGTGTACTG | 60 |
| | GATTTCATCC GCTATTTTCT | AAGTTTGTTA | TGAACGCTTA | TATATATAA | GTATGTAGTA | 120 |
| 35 | AAATTAATGT AAATTTGTAC | TAAAAATAAA | AAATGGCATG | TGATATATGG | CAAA | 174 |
| 40 45 | SEQ ID NO:4527 SEQUENCE LENGTH:201 SEQUENCE TYPE:nucleic TOPOLOGY:linear CLONE:HUMGS05373 SEQUENCE DESCRIPTION: GATCATGTGT TTGGGGGCTT GGTAGGACAT TTCCCAGCAA | TTAGGGGACC | | | | |
| | TCAGAACCAG CCAGCGGTGC | | | | | |
| | TGTTCCTGGT TGGTTTTCAA | | | | | 201 |
| 50 | SEQ ID NO:4528 SEQUENCE LENGTH-308 | | | | | |

| | SEQUENCE TYPE:nucleic | acid | | | | |
|----|-----------------------|------------|------------|------------|------------|-----|
| | TOPOLOGY:linear | | | | | |
| _ | CLONE: HUMGS05374 | | | | | |
| 5 | SEQUENCE DESCRIPTION: | | | | | |
| | GATCTATGAA GCCCACCAAC | | | | | 60 |
| | CCAGGGGCC TGCTCAGAGA | | | | | |
| | ACCCTCCTCT GAAAGAAGCT | | | | | |
| 10 | CCAGGAGGGC AGGAAGCCCT | | | | | |
| | GGCACTCGGG CCTGGGTGGG | AGTCAACGNC | TTCCCCTCTG | GACTCAAATA | AAACCCAGTG | |
| | ACCTCAAA | | | | | 308 |
| | SEQ ID NO:4529 | | | | | |
| 15 | SEQUENCE LENGTH: 194 | | | | | |
| | SEQUENCE TYPE:nucleic | acid | | | | |
| | TOPOLOGY: linear | | | | | |
| | CLONE: HUMGS05375 | | | | | |
| 20 | SEQUENCE DESCRIPTION: | | | | | |
| | GATCTTCTGA GCTTGTTTCC | CTGCTGGGTG | GGACAGAGGN | CAAAGGAGAA | GGGAGGGTCT | 60 |
| | AGAAGAGGCA GCCCTNCNTT | | | | | |
| | AGACCAAAAG CCTCTNATTN | TNAATTTCCA | TAAAATGTTA | GAAGTATATA | TATACATATA | |
| 25 | TATATNCCTN TAAN | | | | | 194 |
| | SEQ ID NO:4530 | | | | | |
| | SEQUENCE LENGTH: 314 | | | | | |
| | SEQUENCE TYPE:nucleic | acid | | | | |
| 30 | TOPOLOGY: linear | 4014 | | | | |
| | CLONE: HUMGS05376 | | | | | |
| | SEQUENCE DESCRIPTION: | | • | | | |
| | GATCTTGATT GATAACTGCC | ATGATATTTT | GCTTTGATGT | GTTTCTACAT | GTGGTTGCAC | 60 |
| 05 | ACGGTTCAGT AAAAATAATG | CTGCTATCGA | GTATGCAAAT | ATTGAAGTAT | GATGGTTTGA | 120 |
| 35 | CTGTATGGNA GTGTTGTAGC | AGCCTCTTGT | TTTTTTCCCC | ATTGCCTCTT | AAAAATTTTT | 180 |
| | ACTTATAAAG TCACTNTTNA | TTTTNCCTCA | GTCTTCAATG | ACGAGAGCAA | TATTAAGANG | 240 |
| | ACATTGCTAT CTAATNNTNA | ATCTTNTTAA | ATGAAAAATT | CCTATGTTCA | GTAGCGTGGT | 300 |
| | TGATGCTATT GTGN | | | | | 314 |
| 40 | | | | | | |
| | SEQ ID NO:4531 | | | | | |
| | SEQUENCE LENGTH: 182 | | | | | |
| | SEQUENCE TYPE:nucleic | acid | | | | |
| 45 | TOPOLOGY: linear | | | | | |
| | CLONE: HUMGS05377 | | | | | |
| | SEQUENCE DESCRIPTION: | | | | | |
| | GATCGAGTCA GCATAAATTT | | | | | 60 |
| 50 | ATTITATITG GIGITIGINT | | | | | |
| | TGTACCAAAT CTTTGGGATT | CATTGGCAAA | TAATTTCAGT | GTGGTGTATT | ATTAAATAGA | |
| | AA | | | | | 182 |

| | SEQ ID NO:4532 | | | | | |
|-----|-----------------------|------------|--------------------------|------------|------------|-----|
| | SEQUENCE LENGTH: 314 | | | | | |
| | SEQUENCE TYPE:nucleic | acid | | | | |
| | TOPOLOGY: linear | aciu | | | | |
| 5 | CLONE: HUMGS05378 | | | | | |
| | | | | | | |
| | SEQUENCE DESCRIPTION: | mmm | ************************ | | m | |
| • | GATCATGAAA CTGGTTTCTG | | | | | 60 |
| | TCTATAATTN CTTCTAGATT | | | | | |
| 10 | AAAATGAGTT ACCTGGNGGG | | | | | |
| | AAAGTCCTAA GCAAGGTTGT | GCTATCANGG | CTCAGCATAC | CTTCGTGGGC | CTTTGANTTA | 240 |
| | CCANCACTGG AANTGCCTGC | CANCTAATET | GGGGTAGATT | CTTTAAGGCA | TTCCACTTAG | 300 |
| | CTTGCCAGTT GNGN | | | | | 314 |
| 15 | CEO ID NO. 4500 | | | | | |
| | SEQ ID NO:4533 | | | | | |
| | SEQUENCE LENGTH: 311 | | | | | |
| | SEQUENCE TYPE:nucleic | acid | | | | |
| | TOPOLOGY:linear | | | | | |
| 20 | CLONE: HUMGS05379 | | | | | |
| | SEQUENCE DESCRIPTION: | | | | | |
| | GATCAACTAA TAGCTCTGCT | | | | • | 60 |
| | AATGACTTAG CTGCCTGGAT | TAATCAGTAT | GGGAAACAAT | CTTTTGTAAA | TGCAAAGCTG | 120 |
| 25 | TTTTTNGTAT ATACTGTTGG | GATTTGCTTC | ATTGTTTGAC | ATCAAATGAT | GATGTAAAGT | 180 |
| | TCGAAAGAGT GAATATTTTG | CCATGTTCAG | TTAAAGTGCA | CAGTCTGTTA | CAGGTTGACA | 240 |
| | CATTGCTTGN CCTGATTTAT | GCAGAATTAA | TANGCTATTT | GGATAGTGTA | GCTTTAATGT | 300 |
| | GCTGCACATG N | | | | | 311 |
| 30 | CEO ID NO. 4504 | | | | | |
| | SEQ ID NO:4534 | | | | | |
| | SEQUENCE LENGTH: 330 | | | | | |
| | SEQUENCE TYPE:nucleic | acid | | | | |
| | TOPOLOGY: linear | | | | | |
| 35 | CLONE: HUMGS05381 | | | | | |
| | SEQUENCE DESCRIPTION: | | | | | |
| | GATCGGAGGA CGACCCGAGT | | | | | 60 |
| | GGTGATGGCA GGGGAGTGGA | GGGTGGCCGG | GCAGGTCCTG | CCGGCGCAGG | GAGCCCTCTG | 120 |
| 40 | CCCTTCACAC TCTCCTCCAA | AAGAGCCTCC | ATCTGTAAGG | AAGCAGGTCT | CCGCGAGGGG | 180 |
| ,,, | TTTCTTTCCA TGTNTTTTCC | TCCTGTNGTT | TTAGAACTTT | TTNGAAAAA | ACNGNCCTCG | 240 |
| | TTTTAGATTT ATAGCATTGA | CTTTTACACA | CATTCACACA | AGANAAAAAT | CCTTNCAAAA | 300 |
| | TTCTTAAANT NNNCTGGTNC | CNNCTTTNNN | | | | 330 |
| 45 | SEQ ID NO:4535 | | | | | |
| | SEQUENCE LENGTH: 204 | | | | | |
| | SEQUENCE TYPE:nucleic | anid . | | | • | |
| | TOPOLOGY: linear | aciu | | | | |
| | CIONE - HIMCSONS 282 | | | | | |

| 5 | SEQUENCE DESCRIPTION: GATCTCAGCT CCCGTTCCCC TCCCCCTGCC TTTTGCACGT TGGATAGCTG TTTTCACCTA ANTAAAATCA TGAATATTTT | TTGCATCCCC AAGGAAAAGC | AGCATTTCCT | GAGTTATAAG | GCCACAGGAG | |
|----|---|--------------------------|--------------------------|--------------------------|--------------------------|------------|
| 10 | SEQ ID NO:4536 SEQUENCE LENGTH:136 SEQUENCE TYPE:nucleic TOPOLOGY:linear | acid | | | | |
| 15 | CLONE:HUMGS05383 SEQUENCE DESCRIPTION: GATCACTTGG AGACTCTTTT CAGAGTACAG GGCTAGGTGA ATATACCCTT NNTGTN | | | | | |
| 20 | SEQ ID NO:4537 SEQUENCE LENGTH:87 SEQUENCE TYPE:nucleic TOPOLOGY:linear | acid | | | | |
| 25 | CLONE:HUMGS05384 SEQUENCE DESCRIPTION: GATCTATGCT GTGTTTGCTT TAGTGAATGT AATTTATAGT | | TGAACACACT | ATGAAGAATT | CCAGGTGTAC | 60 87 |
| 30 | SEQ ID NO:4538 SEQUENCE LENGTH:305 SEQUENCE TYPE:nucleic TOPOLOGY:linear | acid | | | | |
| 35 | CLONE: HUMGS05387 SEQUENCE DESCRIPTION: GATCGACAAC GAGGCCCTCT | | | | | |
| 40 | GCAGGCAGAG GTCACGNTGG AGCCCGGGTA GGGGACACAG GGAGCCCATG TTCACGTGGA TCGACGGGAA GGANCTTGGT TTNGN | TGAGGATTCT CGCGNGTTNT | GGTCCATGGG GAGCCCGGNN | TTTCAGAACG NNNGGACGGN | AAGTCTTCCC AGCGCTGAGT | 180 240 |
| 45 | SEQ ID NO:4539 SEQUENCE LENGTH:106 SEQUENCE TYPE:nucleic TOPOLOGY:linear | acid | | | | |
| 50 | CLONE:HUMGS05388 SEQUENCE DESCRIPTION: GATCATAAAA TGAATTCTTT | ATTGTATCTA | CACACTCCAC | ATTETTTACT | GTGTCCTACT | 60 |

| • | ACTUTATOR GUCICCANIG | CIGIATIAAA | CACCATCITA | AGCAAA | | 100 |
|-----|------------------------|------------|------------|------------|------------|-----|
| • • | | | | | | |
| | SEQ ID NO:4540 | | | | | |
| 5 | SEQUENCE LENGTH: 167 | | | | | |
| | SEQUENCE TYPE:nucleic | acid | | | | |
| | TOPOLOGY:linear | | | | • | |
| | CLONE: HUMGS05389 | | | | | |
| 10 | SEQUENCE DESCRIPTION: | | | | | |
| | GATCCTCCTT TGCATGCAAC | | | | | |
| | CATTTTTTNA AAAAGAAAGA | AAAAAAAAC | TTCGTGTATG | NAACTCAAAG | CATGNAACCT | 120 |
| | TAAGATGTTG CATTCTAAAC | TNACANTAAA | GACCTTTCCC | AANTAAA | | 167 |
| 15 | SEQ ID NO:4541 | | | | | |
| | SEQUENCE LENGTH: 111 | | | | | |
| | SEQUENCE TYPE:nucleic | acid | | | | |
| | TOPOLOGY:linear | | | | | |
| 20 | CLONE: HUMGS05390 | | | | | |
| | SEQUENCE DESCRIPTION: | | | | • | |
| | GATCCATACG TGGCCGCACC | CACACAGCAC | GTGCTGTGAC | NGATGGCTGA | ACGGAAAGTN | 60 |
| | TACACTGTTC CTGAATATTG | | | | | 111 |
| 25 | | | | | | |
| | SEQ ID NO: 4542 | | | | | |
| | SEQUENCE LENGTH: 216 | | | | | |
| | SEQUENCE TYPE:nucleic | acid | | | | |
| | TOPOLOGY:linear | | | | | |
| 30 | CLONE: HUMGS05391 | | | | - | |
| | SEQUENCE DESCRIPTION: | | | | | |
| | GATCAGTTCT GCAAGATGCC | | | | | |
| | TGCTGAGCAG GAGGCAGACT | | | | | |
| 35 | GCGCTCTTGC TTTGCTCTTT | | | TACTGGTGTC | CAGCTGAGTT | |
| | TCTCTTGGGT ATAAAGGCTA | AAAGGGAAAA | AGGAAA | | | 216 |
| | SEQ ID NO:4543 | | | • | | |
| | SEQUENCE LENGTH: 103 | | | | | |
| 40 | SEQUENCE TYPE:nucleic | acid | | | | |
| | TOPOLOGY: linear | | | | | |
| | CLONE: HUMGS05392 | | | | | |
| | SEQUENCE DESCRIPTION: | | | | | |
| 45 | GATCGAAAAT AGTTGGAAAA | AAGAAGAAGA | GTTGCATCTC | TACTGAACAT | GTACAGACTT | 60 |
| | TCTTCTTCTT ATTATTCCCT | | | | | 103 |
| | SEQ ID NO:4544 | | | | | |
| | SEQUENCE LENGTH: 194 | | | | | |
| 50 | SEQUENCE TYPE: nucleic | acid | | | | |
| | TOPOLOGY: linear | | | | | |
| | | | | | | |

| 5 | CLONE: HUMGS05393 SEQUENCE DESCRIPTION GATCAGAACA NTNCAAAAA CGTGATAAAA TATTCATCC CAGTTTTATA ATTAGGGNA CANTGTTCAT TCCN | A TTCACACCCC T ATTTGTCCTG | CATTTCTAAT | TTTCCCGTAA | CTAGACACAT | |
|----|---|------------------------------|------------|------------|------------|------------|
| 10 | SEQ ID NO:4545 SEQUENCE LENGTH:108 SEQUENCE TYPE:nuclei TOPOLOGY:linear | c acid | | | | |
| | CLONE:HUMGS05394 SEQUENCE DESCRIPTION GATCTGGTAG GTTGCAGCA CAAGGGTGAT GGAGAAGGA | G AGAAAATAAA | | | AGAGAGGGTC | 60 108 |
| 20 | SEQ ID NO:4546 SEQUENCE LENGTH:266 SEQUENCE TYPE:nuclei TOPOLOGY:linear | c acid | | | | |
| 25 | CLONE:HUMGS05395 SEQUENCE DESCRIPTION GATCTGCTCT TGCAATGGC GGGCCGAAAG GAGTCAGCG | C TCACCATCTG C ANCCCCTGCC | CACCTTTNAG | CAGGACCTCA | CCTTGGCTCT | |
| 30 | GTTGCTGTCC TCCAGGGCG GCCCAGTCTT TGGAGAGCT NAAAGTTTTA TTTTCGTTT | C AGTACAGGGC | | | | |
| 35 | SEQ ID NO:4547 SEQUENCE LENGTH:72 SEQUENCE TYPE:nuclei TOPOLOGY:linear CLONE:HUMGS05396 | c acid | | | | |
| 40 | SEQUENCE DESCRIPTION GATCTCCGTG TGTGCATGT CAAGTGTTCA AA | • | GTTGGAATGT | GAACAATAAA | GAGGAATGTC | 60 72 |
| 45 | SEQ ID NO:4548 SEQUENCE LENGTH:104 SEQUENCE TYPE:nuclei TOPOLOGY:linear CLONE:HUMGS05398 SEQUENCE DESCRIPTION | | | | · | |
| 50 | GATCATGGGG GTGGATTTC GGTAATGAGT GAGTTCTTA | T TATGAATGGT | | | TTGTCCCCGT | .60 104 |

| 5 | SEQ ID NO:4549 SEQUENCE LENGTH:74 SEQUENCE TYPE:nucleic TOPOLOGY:linear CLONE:HUMGS05399 SEQUENCE DESCRIPTION: GATCTTCACA TCTTGGACCT | | TGCTATTCAT | ΤΑΤΤΑΑΑΓΑΓ | ТААААСТТТС | 60 |
|----|--|--|--------------------------|--------------------------|--------------------------|------------------|
| 10 | GCGGTTNTTG CAAA | INGICAGIII | Idelationi | INTIMACAC | IMMMUIIIU | 74 |
| 15 | SEQ ID NO:4550 SEQUENCE LENGTH:292 SEQUENCE TYPE:nucleic TOPOLOGY:linear CLONE:HUMGS05400 | acid | | | | |
| 20 | SEQUENCE DESCRIPTION: GATCTGAAAT CACATCCAGC TCCTACCTGC AGGAAGGCAC | | | | | 60 120 |
| | CCTGAGTTCA GTTGAGAAAA CAAAGACCTG TAAAATGGAG GACTTGTAAC CGTCGCAGCC | GGATTTACCA | CCTCACATAT | GTCCAGTTAA | ACAGTTTGTG | |
| 25 | SEQ ID NO:4551 SEQUENCE LENGTH:265 SEQUENCE TYPE:nucleic TOPOLOGY:linear | acid- | | | | |
| 30 | CLONE: HUMGSO5401 SEQUENCE DESCRIPTION: GATCGGATGG GCAAGTCCCT | GCCAGGGTCT | CCAGATGGCA | ATGGAAGCTC | CTCCTTGCCC | 60 |
| 35 | CACTGGGAGT AGCGGCTAAA TGGAGCTGTC ATCACTCAAC ATGGGCCCCT CACCGCTGGT GCTGTGCTTG GGGGTCGCTN | GCTGGGGGAT AAAAAACCGA TGGAAAGAGT | AGAGGGGCTG GGCCCTCAAT | CAGGGCCACT CCACCTTCAG | GGAAGGAACA GGCCCGGCCC | 120 180 |
| 40 | SEQ ID NO:4552 SEQUENCE LENGTH:173 SEQUENCE TYPE:nucleic TOPOLOGY:linear CLONE:HUMGS05402 | acid | | | | |
| 45 | SEQUENCE DESCRIPTION: GATCTATGCT CTTTCAAATG TTTCCTCCCA AATNTTAGTC CTGTCAATAA TTCAGGATTA | ACATATATNA | TTACCCTTAA | GTTGGTCACT | ATCTATCTAT | 60 120 173 |
| 50 | SEQ ID NO:4553 | | | | | |

| 5 | SEQUENCE LENGTH:270 SEQUENCE TYPE:nucleic TOPOLOGY:linear CLONE:HUMGS05404 SEQUENCE DESCRIPTION: | acid | | | | |
|----|---|--|--------------------------|--------------------------|--------------------------|------------|
| 10 | GATCGACCAG CAGGTGGTCT ATGGGTNGTG TACCATGAGC CATCGACCCT CGGTGGCTTG TAAGCTAAGN AANCAGAAGA ANCCCAATGN CTGGGAGAAT | TNGTGCTCAC TGGAGTTTGC AGCANCAGCG | CACCAAGGAA CCCAGCCTTN | TACATGCGTG TTNAAGGTCT | AAGTTACCAC CAGACCCANC | 120 180 |
| 15 | SEQ ID NO:4554 SEQUENCE LENGTH:333 SEQUENCE TYPE:nucleic TOPOLOGY:linear | acid | | | | |
| 20 | CLONE:HUMGS05406 SEQUENCE DESCRIPTION: GATCGGGTTG AGCCCAGGAG GCCTGGGCAA GAGCGTGAGA | CCCTGTCTCA | AAGAAGAAAA | AAAGAGAAAA | ATAACTCTTT | 120 |
| 25 | TGAACAAACA GNCAAATTAG AACCGTAACA AAATTCATTG ACTGATGNTT AANNTTGGTT GTCAGAANTT TTTTTCCNNC | NGGTGTATTA ACAGTGACTT | TAGTTAGTTT TTAGAAGGGN | TGTGAATAGA | GAAATAAAGC | 240 |
| 30 | SEQ ID NO:4555 SEQUENCE LENGTH:250 SEQUENCE TYPE:nucleic TOPOLOGY:linear | acid | | | | |
| 35 | CLONE:HUMGS05407 SEQUENCE DESCRIPTION: GATCTCCCCC TTCCCTTGNG TGGGTGTGGC TTTGACCTCA | GAAGTGGCTC | TGGTTTGGCC | TCAGGAGTGT | GGCCTGGCCC | 120 |
| 40 | AGCCTGCTGC AGCCTCCTGT NTTNCAAACT GNACAGACAC TTNTTTANGN | | | | | |
| 45 | SEQ ID NO:4556 SEQUENCE LENGTH:211 SEQUENCE TYPE:nucleic TOPOLOGY:linear CLONE:HUMGS05408 SEQUENCE DESCRIPTION: | acid | | | | |
| 50 | GATCAATGCA NCGACGTNGG ACCATGAACC ATTTTGTGAA AGAATGCGCG NGCTCTNTTT | CAANTTCAAT | GTCCTCTACG | ACCGACAAGG | CATCGGCAGG | |

| | NGCAACTATC CCAAAGTGGA | GNGCACTACA | N | | | 211 |
|----|--|------------|------------|------------|------------|------------------|
| 5 | SEQ ID NO:4557 SEQUENCE LENGTH:308 SEQUENCE TYPE:nucleic TOPOLOGY:linear | acid | | | | |
| 10 | CLONE: HUMGS05409 SEQUENCE DESCRIPTION: GATCTTTTTT CCATTGGTTA ACATCATGTT CTTTCCTTTT ATGCGTATCT GAGGGTGTCA | TTGCGAGTTA | TTTTGCATTA | ACCAACTTTG | TCAGTGACAG | 120 |
| 15 | GCCGTCTAAT ACATGGACTT TGAATTTTTT TNGAATCACT CGGTGGAN | ATAAACTGAC | TGCNTGGGCA | ATGAAAAGGC | CAAATTATTC | 240 |
| 20 | SEQ ID NO:4558 SEQUENCE LENGTH:175 SEQUENCE TYPE:nucleic TOPOLOGY:linear | acid | | | | |
| 25 | CLONE:HUMGS05410 SEQUENCE DESCRIPTION: GATCCAGCTG GCTCATCCCA GCAAGCCAGT TGTCAAACAC CAAGGACAAT AAATATTCAA | AGCCATTATA | ATTATGTAAA | TTTGCAANTT | ATGTTAAAAA | 60 120 175 |
| 30 | SEQ ID NO:4559 SEQUENCE LENGTH:178 SEQUENCE TYPE:nucleic TOPOLOGY:linear | acid | | | | |
| 35 | CLONE:HUMGS05411 SEQUENCE DESCRIPTION: GATCTTNACA ACTGTTTAAT TGCTGTCCCG TTTTTGTAAA | TCAANTGAAA | NTATAAAAGA | GGCTTGTGAC | AGTAGGTATT | |
| 40 | TTGTACATAT GTATATATGT | IGICCAAAIA | AAAIIAAIAA | ANIGGINAAA | GUCTGAAA | 178 |
| 45 | SEQ ID NO:4560 SEQUENCE LENGTH:77 SEQUENCE TYPE:nucleic TOPOLOGY:linear CLONE:HUMGSO5412 SEQUENCE DESCRIPTION: | acid | | | | |
| 50 | GATCTTCAGC ATCTTTTACT ATGCCGCAAA AAAGAAA SEQ ID NO:4561 | TTCACCAGCG | TTTCTGGGTG | AGCAAAAACA | GGNAGGCAAA | 60 77 |

| | SEQUENCE LENGTH: 203 | | | | | |
|-----|------------------------|------------|------------|------------|------------|-----|
| | SEQUENCE TYPE: nucleic | acid | | | | |
| | TOPOLOGY:linear | | | | | |
| 5 | CLONE: HUMGS05413 | | | | | |
| | SEQUENCE DESCRIPTION: | | | | | |
| | GATCCCAGGA ATATTGTAAA | TNTTCTAACT | TTACTCTGCA | TTTTGTATAT | CTGGCCTCTA | 60 |
| | TTGCCCTTGA AGGTGAAGAT | GAAACTGTCT | TTAGAAGATA | TCTCTTTGAT | TCTGTGATAG | 120 |
| | AAGTCCCTCA CATCTTGTAT | TAATTTTATG | TATATATCAA | CGGTGGTTGG | TCTTTAAAAA | 180 |
| 10 | AATAAATCAA AAGAATANGT | AAA | | | | 203 |
| | SEQ ID NO:4562 | | | | | |
| | SEQUENCE LENGTH: 352 | | | • | | |
| 15 | SEQUENCE TYPE: nucleic | acid | | | | |
| | TOPOLOGY:linear | | | | | |
| | CLONE: HUMGS05414 | | | | | |
| | SEQUENCE DESCRIPTION: | | | | | |
| 20 | GATCAACCCA CATTAGAGTG | TCTAAGGACT | CCTGAGAATT | CCTGTTACAG | TAAACAAAAC | 60 |
| | TAACGTAATC TACCATTTCC | | | | | |
| | AAAACTTAAC GCTTTTTGGA | | | | | |
| | TACGCCTTGA TGAAAGAACC | | | | | |
| ne. | TINTCINTCT TAAGGCCTTA | | | | | |
| 25 | AGNTTGGGGG GGGGNTNNTG | NAAATTAANT | TTTNTTGAGG | GGTNGGCNTA | GN | 352 |
| | SEQ ID NO:4563 | | | | | |
| | SEQUENCE LENGTH: 210 | | | | | |
| 30 | SEQUENCE TYPE:nucleic | acid | | | | |
| | TOPOLOGY: linear | | | | | |
| | CLONE: HUMGS05415 | | | | • | |
| | SEQUENCE DESCRIPTION: | | | | | |
| 35 | GATCCGCAAC CTGGACCCCA | | | | | |
| | CCTACTCAGG ATTTNCACGT | | | | | |
| | AGCCCCAGAT TGGAGGCAGA | | | CCCCCTGCAT | CTCAAGAATA | |
| | AAGCAAGCTG CCTTTGTACT | TGGTTGNAAA | | | | 210 |
| 40 | SEQ ID NO:4564 | | | | | |
| | SEQUENCE LENGTH: 74 | | | | | |
| | SEQUENCE TYPE: nucleic | acid | | | | |
| | TOPOLOGY: linear | | | | | |
| 45 | CLONE: HUMGS 05416 | | | | | |
| | SEQUENCE DESCRIPTION: | | | | | |
| • | GATCANATAG TTGCTGTTTT | GTAAAATGTA | ATGTATATNT | GGTTTTAAGT | AAAATAGGGC | 60 |
| | ACCTGTTTCA CAAA | | | | | 74 |
| 50 | SEQ ID NO:4565 | | | | | |
| | SEQUENCE LENGTH: 303 | | | | | |

| 5 | SEQUENCE TYPE:nucleic TOPOLOGY:linear CLONE:HUMGS05417 SEQUENCE DESCRIPTION: | acid | | | | |
|----|---|--------------------------|-----------------------|--------------------------|--------------------------|------------|
| | GATCCAGAAA CTGAGAAGCT ATGCTACACA AAATACAAAA | ACAGATGAAG | GAGAACTATT | AACTGGCTTT | CAGCCCTGGA | |
| 10 | TATTTAAATC TCCTCCTCTT CAGGCCCCTT NAGCTACTNC GNGGCANTAA AGTTTAATAA AAA | CACTTCGCCT | TACATCCATG | CTGACTGNCN | AGAGACTNAN | 240 |
| 15 | SEQ ID NO:4566 SEQUENCE LENGTH:109 SEQUENCE TYPE:nucleic TOPOLOGY:linear | acid | | | | |
| 20 | CLONE: HUMGS05418 SEQUENCE DESCRIPTION: GATCGTGTTT TAACTTTTC TTGTAAAGCT GTTATAAATA | | | | TTGCCTTTAT | 60 109 |
| 25 | SEQ ID NO:4567 SEQUENCE LENGTH:303 SEQUENCE TYPE:nucleic TOPOLOGY:linear | acid | | | | |
| 30 | CLONE:HUMGSO5419 SEQUENCE DESCRIPTION: GATCTGGAGG CAGCAGTGCT TCTTTTCTCC TTTGATTATG | | | | | 60 120 |
| 35 | GGCAAGAAGA CAAAAAGGAG CAAGTGAGAT AAGGTATTTT GTGAATACTC ACATCTTTNA AAA | AGAAAATGTA NATCAATATG | CCTCTTCTAC AAGGCAACCT | TGGAATAATG TGGCTGATAA | TTTATGATTA AACCTCTATA | 180 240 |
| 40 | SEQ ID NO:4568 SEQUENCE LENGTH:230 SEQUENCE TYPE:nucleic | acid | | | | |
| 45 | TOPOLOGY:linear CLONE:HUMGS05420 SEQUENCE DESCRIPTION: GATCTCTTTT GTAGAGGATT | | | | | |
| 50 | CGAATATGTG TGTGAGTTTG GGACATTTGT GATTGGACAG TAGGTTATGC CTATATGCAA | AGGGGTTTGT | GCTGTGGCCT | AACACTTGCC | AAGTGAGGTG | |
| | SEQ ID NO:4569 | | | | | • |

| | SEQUENCE LENGTH: 355 | |
|----|--|---|
| | SEQUENCE TYPE: nucleic acid | |
| | TOPOLOGY: linear | |
| 5 | CLONE: HUMGS05421 | |
| | SEQUENCE DESCRIPTION: | |
| | GATCCCCAAT TGACTCAGAG TTTGAGGAGT TAGTATCACA GAATTAGATT TTTTTAAAGC 60 | |
| | ATTTGTACGT TTCCATTCCC AAATATGTAG CTGTGGTTCT TGAAAACACA TCCTACATTG 120 | |
| 10 | CATATGGGCA TAGCAGTTTT TGACCCAGGC AGAATAAGTT AATATTAAT TAAATATTGC 180 | |
| | TTTGAAGATG GCGCTCTGGG CATGAGCATG GGGCTCCATG ACTTCCCTTC TATCCCCATG 240 | |
| | AGCCCCTCCT NCATCCAGCG ACAAGCCATG GGCATGCATA CAATGCAGCA AGACCAACAC 300 ANGNGCAATA TTGAATTGGN TCATTCTATC TAAAAATTAC ATGGGGNGGG ANGTN 355 | |
| | ANGNGCAATA TTGAATTGGN TCATTCTATC TAAAAATTAC ATGGGGNGGG ANGTN 355 | |
| 15 | SEQ ID NO:4570 | |
| | SEQUENCE LENGTH: 353 | |
| | SEQUENCE TYPE:nucleic acid | |
| | TOPOLOGY: linear | |
| 20 | CLONE: HUMGS05422 | |
| | SEQUENCE DESCRIPTION: | |
| | GATCAGAAAT AAACGACAAA TAGTGTGAGA TGTGTTGTGA ACAGGCATGG TGACCGTGGT 60 | |
| | CAGCGCCACT CTTGTTTCCT GAAATGTGCT TCTAAGACAG AAAATGTATT TNCTCATCAA 120 | |
| 05 | GGGTGTCTGG AGACACAGAC CGTGACCTTG GCGCANGGTG TGCATCAGAG GCGTGTGCTG 180 | |
| 25 | AGAAGGGTGG TGTTAAGCTG TGGAAAATGA CTCAAGAGCA ATAAATCAGT GCCAAAGCTT 240 | |
| | CCCTGCGCAT CTGAATAGNC ACAAGTGAAG CCCGTGTGCG CACAGTGCAG AGGCCNAGNC 300 | |
| | TGTATTTCCA GGTAGNGTGG CTTTATTTGA CTGTGAATCC ATTTACCTGT TAN 353 | |
| 30 | SEQ ID NO:4571 | |
| 30 | SEQUENCE LENGTH: 266 | |
| | SEQUENCE TYPE:nucleic acid | |
| | TOPOLOGY: linear | |
| | CLONE: HUNGS05423 | |
| 35 | SEQUENCE DESCRIPTION: | |
| | GATCGGGTCT ATTTCACCCA ATAGTCACTT GTGTGTCCCC CGAAATTGGG ATGGGTGAGC 60 | |
| | ACCCTTGCTG TGGTGTAAAC TTCCTGTTAT TTAATCTCCC CCACGGTTTC ATTTTTNTNT 120 | |
| | TCTGTTAATA CTTAGAACTT TCTAAGAAAC TCCATGAAAT GAGGAAATAC TGTTTCTAAT 180 | |
| 40 | AATATGAGGA AAGANGTAAA ANTGTTCATT CCANGTGGCA AGTCTTATTG GACACATTTT 240 | ı |
| | ANATAAGNTC ATGCATACCT GATAAA 266 | 1 |
| | SEQ ID NO:4572 | |
| 45 | SEQUENCE LENGTH: 279 | |
| 70 | SEQUENCE TYPE:nucleic acid | |
| | TOPOLOGY: linear | |
| | CLONE: HUNGS05424 | |
| | SEQUENCE DESCRIPTION: | |
| 50 | GATCGCCCCC ATGAGGTGCT GCTGTGCTCG GACCTGGTCA AGGCATACCA GCGCTGCGTG 60 |) |

55

AGCGCCGCCC ACAAGGGNTG AGGAGCAGAC ATCATTCCCT GCCCTGGCAG TGACTTGGAG 120

| | CCCTGAAGAA (CCCTGCATAT (TGTCTGAAAA (| GCCCCTGAGC | CTGGGGCTGC | CACGTGTTTA | | | |
|----|--|--|--------------------------|--------------------------|--------------------------|--------------------------|-------------------|
| 5 | | ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,, | | 011110101 | | | 213 |
| 10 | SEQ ID NO: 45 SEQUENCE LEN SEQUENCE TYP TOPOLOGY: lin CLONE: HUMGSO SEQUENCE DES | NGTH:131 PE:nucleic near 05425 CCRIPTION: | | | | | |
| 15 | GATCTAGGCC A CTCCCCGGAG T CGGACGNTCA N | CCCCCAGCA | | | | | 60 120 131 |
| 20 | SEQ ID NO:45 SEQUENCE LEN SEQUENCE TYP TOPOLOGY:lin CLONE:HUMGSO | GTH:413 E:nucleic ear 5427 | acid | | | | |
| 25 | SEQUENCE DES GATCTCACCT T CAGCAAGCTC A GGCCAAAAAG A | CCACCTCCT CAGCAACAG NTCTGCATT | GAAACTCATG TAGCACAAAA | GAGATTATTG AAAATTTAAA | GGAAATAAAA AAAATACAGT | CGGTGCGTTT ATTCTGTACC | 120 180 |
| 30 | ATAGCGCTGC TO GGGAGAGAGC CO CACANTGTTA TO GNGTTTTTAA A | TATACCCCT TCGTTTTGG | TACTTAGCAT NCTTCGGTTT | NCACAAAGTG NGTTNCCGGG | TATTCACGNT GNCAGGTGTT | GCAGCAGCAN TTTATTAGTG | 300 |
| 35 | SEQ ID NO: 45' SEQUENCE LENG SEQUENCE TYPE TOPOLOGY: ling CLONE: HUMGSOG SEQUENCE DESG | GTH:55 E:nucleic ear 5428 | acid | | | | |
| 40 | GATCACGCCA C | | GCACCCTGGG | CGACAGAGTG | AGACCCTGTC | TCAAA | 55 |
| 45 | SEQ ID NO:45' SEQUENCE LENG SEQUENCE TYPI TOPOLOGY:ling CLONE:HUMGSOS SEQUENCE DESC | 76 GTH:102 E:nucleic ear 5429 CRIPTION: | acid | | | | |
| 50 | GATCTGGCGT TO GGAAAATNTG GO | | | | | AAATGGAACT | 60 1 <u>02</u> |

| | SEQ ID NO: 4577 | |
|----|---|-----|
| | SEQUENCE LENGTH: 420 | |
| | SEQUENCE TYPE: nucleic acid | |
| 5 | TOPOLOGY: linear | |
| • | CLONE: HUMGS05430 | |
| | SEQUENCE DESCRIPTION: | |
| | GATCCAAGCT GCTTGAGGGG GTCAACCTTG GACCAAAGTT GCCTTAAGCC TGTGGTAAAA | 6 |
| 10 | GGGCTTCAGG GAAGGTAAGT GGGCCANCTG CTGGAAGCTG CCAGCTGCCC GGNTGGCAAT | 12 |
| | GGTGTGAGTG TCTTGGCCCT GTCCCTGCCC TGGGGTCCAG CAGGTNATCC CTCCCTTCTT | 18 |
| | CTCTCTCCTT TGGCGTTTGT TCCTGTAGTC ACTGGGCTAA TCTCCCCCTA GCTTGAAGCT | |
| | GTACATAGGG CCTCCNAGTG CAAATGNTNC TGNCCATACC GTGCACCCTT AGAAGCCTGC | |
| | GTGTGCATAG AGCGCCCNNT ACTINCCAGT TAANTICCNA GTICTTGTIN CNTGAGCTTG | 36 |
| 15 | GTATTTTGTC ATGTGNCAAA TTCTGACTTT TGAAGGTTGG GNAAGTGAAG GGGAATTNAN | 42 |
| | SEQ ID NO:4578 | |
| | SEQUENCE LENGTH: 307 | |
| 20 | SEQUENCE TYPE: nucleic acid | |
| | TOPOLOGY: linear | |
| | CLONE: HUMGS05431 | |
| | SEQUENCE DESCRIPTION: | |
| 05 | GATCTGGGAC GTCCACGAGT GAGGGGCTGG CCACCCAGCC CGACAGCCTT GCCTGACCAC | |
| 25 | CCTCCAGCAG ATAGACGECG GCACCCCTTC CTCTTCCTAG GGTGGAAGNG GCCCTGGGCC | |
| | GAGCCTGTAG ACCTATCGGN TCTCATCCCT TGGGNTAAGC CCCAGTCCAG GTCCAGGAGG | |
| | NTCCCTCCCT GCCCAGCGAG TCTTNCAGAA GGNGTTTAAA AGGGTTGCAG GTNCCNACCA | |
| | CTGACCCTTC CCGGNTGGCC TNCTTGCNCA GCTTANAANC TTAAAGTCCA GNACGCAGTA | 300 |
| 30 | ACCININ | 301 |
| | SEQ ID NO:4579 | • |
| | SEQUENCE LENGTH: 239 | |
| 35 | SEQUENCE TYPE:nucleic acid | |
| 33 | TOPOLOGY:linear | |
| | CLONE: HUMGS05432 | |
| | SEQUENCE DESCRIPTION: | |
| | GATCCCTCTC CAAAGTGGTT GTCTTTCTNT ACCTTGTGTC TTCTCTTGTA AAAATGAAAC | |
| 40 | TCAAAAATAA AATAAATGTG TCAAATTTTG AAAAAAAANG AAAACTGAAA AAGCTAACAT | |
| | GANTTGTGTG AAATTGCATA ATGCTGTANT GCTAATCTAC AATATGTAAT GCTATCTTGT | 180 |
| | ATGINGNATI IGITAAIGCA CCACACAAGI GCAANGIAAA GACIGAITCA CNIIGNNNN | 239 |
| 45 | SEQ ID NO:4580 | |
| | SEQUENCE LENGTH:51 | |
| | SEQUENCE TYPE: nucleic acid | |
| | TOPOLOGY: linear | |
| | CLONE: HUMGS05433 | |
| 50 | SEQUENCE DESCRIPTION: | |
| | GATCTGACTG TACTAAATAT GAAAAATAAA GCAGCACATA CTTTCTCTAA A | 51 |

| 5 | SEQ ID NO:4581 SEQUENCE LENGTH:201 SEQUENCE TYPE:nucleic TOPOLOGY:linear CLONE:HUMGS05434 SEQUENCE DESCRIPTION: | acid | | | | |
|----|---|--|--|--------------------------|--------------------------|-------------------|
| 10 | GATCCATATA ACTGTTGGGT ACTATGTATA TNCATTGTTA CATACATGTG CAGAAATGTA AANTTGANCA TCGNGTNTAA | AGAGTTAACT TTCAAATGAA | TGTGGTTTGG | CTGTTTCCTG | GATTTNATAA | 120 |
| 15 | SEQ ID NO:4582 SEQUENCE LENGTH:170 SEQUENCE TYPE:nucleic TOPOLOGY:linear CLONE:HUMGS05435 | acid | | | | |
| 20 | SEQUENCE DESCRIPTION: GATCATACAG TGAGGCTACA CCTGCTCCAG CCCCTCAGCT GCTGTTTTAC TGTCTACTTT | TCCCAGACCC | TCATGCANTT | GGTTGTAAAT | | 60 120 170 |
| | SEQ ID NO:4583 SEQUENCE LENGTH:393 SEQUENCE TYPE:nucleic TOPOLOGY:linear | acid | | | | |
| 30 | CLONE:HUMGS05436 SEQUENCE DESCRIPTION: GATCGGACTC TGCCCCTGGA CTCCCAGTGA ACTCCTGCCA | | | | | 60 120 |
| 35 | GGGATATGGG GGCATCTCTT AGCCTGGGCC ATCTCTTAGG AGCAGCAGCT TGGGGAGAGG GCCATGACAG AGGCTGGACC | TGAGACAGTT GATTTCCCTG NCTGGGCCAG | GCCCGAAACT CAGACCTCAA CGGGGTTGCT | AAGCCAGGCC GCCATCATGC | TGGCTGGAGG GGTGGGTGCT | 240 300 360 |
| 40 | TGGCCTTTGT GCTTGCGCCT | GCAGGCAGAN | GIN | | | 393 |
| 45 | SEQ ID NO:4584 SEQUENCE LENGTH:162 SEQUENCE TYPE:nucleic TOPOLOGY:linear CLONE:HUMGS05437 SEQUENCE DESCRIPTION: | | | | | |
| 50 | GATCCTGCCC GAGGAGGAGG CTGCACAGGC ACTTTAGCCC CCCTGCTGAT AAGCTGGCTT | GAGCCAGGNA | CACCTGCGAG | GGGGCAGGTG | | 60 120 162 |

| 5 | SEQ ID NO:4585 SEQUENCE LENGTH:122 SEQUENCE TYPE:nucleic TOPOLOGY:linear CLONE:HUMGS05438 SEQUENCE DESCRIPTION: GATCTGTAGG GTCAGGAACA | | CACAGTGCCT | TATGGATAGT | AGTTTTATAA | 60 |
|----|---|------------|------------|------------|------------|-----|
| 10 | TACAGATGTG TTGGAAGAAT | AAATGAATGG | GTCCTTTTCA | AACAAATTCA | CCAGAAGTTA | |
| | AA | | | | | 122 |
| 15 | SEQ ID NO:4586 SEQUENCE LENGTH:288 | ., | | | | |
| | SEQUENCE TYPE:nucleic TOPOLOGY:linear | acid | | | | |
| | CLONE: HUMGS05439 | | | | | |
| | SEQUENCE DESCRIPTION: | | | | | |
| 20 | GATCTGTCAC CTTCAGCGAG | | | | | 60 |
| | GCCTAGGCCC AGGTGTTCCT TTAGTTTTGC CCATAACGCA | | | | | |
| | TGTTCAACAC AGTAACCCCT | | | | | |
| | TTTCCTTATT TTCAATAAAT | | | | | 288 |
| 25 | | | | | | |
| | SEQ ID NO:4587 | | | | | |
| | SEQUENCE LENGTH: 188 | | | | | |
| | SEQUENCE TYPE:nucleic | acid | • | | | |
| 30 | TOPOLOGY: linear | | | | | |
| | CLONE: HUMGS05440 SEQUENCE DESCRIPTION: | | | | | |
| | GATCCCTATG TGGCTAACAG | AATTAATGNT | TCCAAAAATG | TTGNAAATTA | TATAGTNCTC | 60 |
| | TTAATTCCCC ACCTCTAACT | | | | | |
| 35 | TCATATTACT GAGAATCTAG | AAATCTTTTG | CAAAGTTCTT | GTTATNTTGN | CAAATTGCTT | 180 |
| | CCCNNNNN | | | | | 188 |
| | 470 IB No. 1500 | | | | | |
| 40 | SEQ ID NO:4588 SEQUENCE LENGTH:287 | | | | | |
| | SEQUENCE TYPE:nucleic | acid | | | | |
| | TOPOLOGY: linear | aciu | | | | |
| | CLONE: HUNGS 05441 | | | | | |
| 45 | SEQUENCE DESCRIPTION: | | | | | |
| - | GATCTGCCCG CCTCGGCCTC | CCAAAGTGCT | GGGATTACAG | GCGTGAGCAC | CAGTGCCCAG | 60 |
| | TCCTGCCACA TCTTTTTGT | | | | | |
| | CAAAAAAGAA AATACCATGA | | | | | |
| 50 | TAATATTTCA TTCGAATAAG | | | | GCTACTTGGC | • |
| | ATGCCACCCA TCTTAGGGAA | TTATATGAGG | GTTTATACTT | TAAAGTN | | 287 |

| | SEQ ID NO:4589 | | | | | |
|----|---|---|------------|------------|------------|-----|
| , | SEQUENCE LENGTH: 289 | | | | | |
| 5 | SEQUENCE TYPE:nucleic | acid | | | | |
| | TOPOLOGY: linear | | | | | |
| | CLONE: HUMGS 05442 | | | | | |
| | SEQUENCE DESCRIPTION: | | | | | |
| | GATCAAAATT TCAAGTTGAC | | | | | |
| 10 | TAATGAGGCA TAACATGCAT | | | | | |
| | TTTTGCATGT ATGTATGTAC | | | | | |
| | CTATATTGAT ATGTCACATA | • | | | TCAGTGGTTT | |
| | TTNGTATATT TGCAAAATTG | TGCAACCNTC | CCNACCATCT | AATTCTAGN | | 289 |
| 15 | SEQ ID NO:4590 | | | | | |
| | SEQUENCE LENGTH: 293 | | | | | |
| | SEQUENCE TYPE:nucleic | aaid | | | | |
| | TOPOLOGY: linear | aciu | | | | |
| 20 | | | | | | |
| 20 | CLONE: HUMGS05443 SEQUENCE DESCRIPTION: | | | | | |
| | GATCCTCAAA GAAAGATTTG | ተተ ለሮለርለቸለር | ACAGGTTCAC | AATTTCTCCA | AACCCAATTC | 60 |
| | ACTGAATCTG TGGCTTCATG | | | | | |
| | GCCAGGACAA ATAGATGCTA | | | | • | |
| 25 | ATTGGCAAGC AAATCTTAGT | | | | | |
| | ACAGGACAGG NGCGACCTCC | | | | | 293 |
| | ACAUGACAGG NUCUACCICC | GGCCIIGACI | GICIGGGWWG | CITUALGUAL | 1114 | 233 |
| | SEQ ID NO:4591 | | | | | |
| 30 | SEQUENCE LENGTH: 62 | | | | | |
| | SEQUENCE TYPE:nucleic | acid | | | | |
| | TOPOLOGY: linear | doru | | | | |
| | CLONE: HUNGS 05444 | | | | | |
| 35 | SEQUENCE DESCRIPTION: | | | | | |
| 33 | GATCCACTTA GAGCAATAAC | CACTTTTTAA | ATGTAAAATA | AAAAGACAAA | TGNAAAGGCA | 60 |
| | AA | V | | | | 62 |
| | | | | | | - |
| | SEQ ID NO:4592 | | | | | |
| 40 | SEQUENCE LENGTH: 64 | | | | | |
| | SEQUENCE TYPE:nucleic | acid | | | | |
| | TOPOLOGY: linear | | | | | |
| | CLONE: HUMGS05445 | | | | | |
| 45 | SEQUENCE DESCRIPTION: | | | | | |
| | GATCTTCCCA CTGCACTCCA | GCCTGGCCAA | TAAGACCTGT | CTCCAGCAAG | ACCCGNGTCT | 60 |
| | CAAA | | | | | 64 |
| | | | | | | • |
| | SEQ ID NO:4593 | | | | | |
| 50 | SEQUENCE LENGTH: 323 | | | | | • |

| | SEQUENCE TYPE:nucleic acid TOPOLOGY:linear | |
|------|--|-----|
| 5 | CLONE: HUMGSO5446 SEQUENCE DESCRIPTION: | |
| | GATCTAGATT CATTAGGAAT GTNTTCTTGT CAGCCAGGCC AGGACCCGGG CTTGCCAAGA | 60 |
| | GCAGAGGCCC TCCCAGCAAC CAGGATACCA CCACTTTGGG GGCTTTGTGT ACAGAGGTCC | |
| • | GGGTCTGAGA CCTCATAGGC TGCAGAAATC TGGGGCAGCC ACCATCAAGA AGCCCCTCTC | |
| 10 | AGGGGCCAGA ACTCCTTTGC CAGCGTGGAT TTCTCAAGTC GGGACTGCAT AATTAAAGCA | 240 |
| | GTTGCAGTTT TATTTTTTT ACAGCTTTTT TCCCAAAAAT GATTTGTAGT TGTGTGTGCA | 300 |
| | GCACTTTCGG CCTGATATGT GTN | 323 |
| 15 | SEQ ID NO: 4594 | |
| | SEQUENCE LENGTH:70 SEQUENCE TYPE:nucleic acid | |
| | TOPOLOGY: linear | |
| | CLONE: HUMGS05447 | |
| 20 | SEQUENCE DESCRIPTION: | |
| | GATCAAAAAG ATAAGTTTAC AAAGTTGAGA CCTCTCATAA AACAAATGAA TAAAAATTTC | 60 |
| | CTCTTGTAAA | 70 |
| 25 | SEQ ID NO:4595 | |
| 20 | SEQUENCE LENGTH: 183 | |
| | SEQUENCE TYPE: nucleic acid | |
| | TOPOLOGY: linear | |
| 30 | CLONE: HUNGS05448 | |
| 30 | SEQUENCE DESCRIPTION: GATCACCTGT GCCTCCCCTC CCCCTTTGTT TGCCCCTGTG TGGTTGGT | 60 |
| | TGAGGGNAAT AGGGACCCCC CGACTTGCCC TCCTGCCTCA GTCTTTCCCC CACCCTGTCT | |
| | CTTCCTTGTC CTTCTCGGA AAATGCCAAA ATACACGATG TGAATAAAAG TACAACGGCT | |
| 35 . | | 183 |
| | SEQ ID NO:4596 | |
| | SEQUENCE LENGTH: 70 | |
| | SEQUENCE TYPE:nucleic acid | |
| 40 | TOPOLOGY: linear | |
| | CLONE: HUMGS05451 | |
| | SEQUENCE DESCRIPTION: | |
| | GATCTATAAT TATGCCAATA CCACACTGTC TTGATTACTG TAACTTTAGA ATAAATCTTG | 60 |
| 45 | AAAGTAGAAA | 70 |
| , | SEQ ID NO:4597 | |
| | SEQUENCE LENGTH: 202 | |
| 50 | SEQUENCE TYPE:nucleic acid | |
| | TOPOLOGY:linear CLONE:HUMGS05452 | |
| | JGPGUGDIUI . anuau | |

| | SEQUENCE DESCRIPTION: | | | | • | |
|----|------------------------|------------|------------|------------|-------------|-----|
| | GATCTGCCTG TCAGAGTCCA | CGTGTCCTGG | TCACTGGTCT | TTATAATTGT | TGTGCAATAA | 60 |
| | CTAAAGGCTA AGGACTAGAT | | | | | |
| 5 | TGCACTTAAT CAAATAGTAT | | | | | |
| | TATCTCAATG TCAAATACTA | | | 30 | | 202 |
| | INICIONALI ICAMALACIA | An. | | | | 202 |
| | SEQ ID NO:4598 | | | | | |
| 10 | SEQUENCE LENGTH: 149 | | | | | |
| | SEQUENCE TYPE:nucleic | acid | | | | |
| | TOPOLOGY: linear | | | | | |
| | CLONE: HUMGS05453 | | | | | |
| | SEQUENCE DESCRIPTION: | | | | | |
| 15 | GATCCTGGNG CCTGGACCGG | GCTGGANGAC | AGCTGAGNAT | GGGCCTAGCA | GATGAAGCTT | 60 |
| | GCCAGCAAGG CCAAAGCAAA | | | | | |
| | AATGGAATTA TTCATTTTNC | | Tordoninar | danonanano | 01114111100 | 149 |
| | ANIGUANITA ITCATTINC | ICIAICINI | | | | 173 |
| 20 | SEQ ID NO:4599 | | | | | |
| | SEQUENCE LENGTH: 311 | | | | | |
| | SEQUENCE TYPE:nucleic | acid | | | | |
| | TOPOLOGY: linear | | | | | |
| | CLONE: HUMGS05454 | | | | | |
| 25 | SEQUENCE DESCRIPTION: | | | | | |
| | GATCAAGCAA TGGAAAAATT | TGCACCACCG | TGTCCCATGA | AATTGTTTCA | ATGTTTAGTT | 60 |
| | TAGATATTGC TAACTTGTGC | TATTAACCTT | TTGACAAGCG | TGTAGTATTG | TTTGTTTTGG | 120 |
| | GTTTCTTTTT GATTTATAAC | | | | | |
| 30 | CCCATGGGTA GGATTCTATT | | | | | |
| | GCAAATGGAA AATACGAACC | | | | | |
| | TTTGGATATT N | , | | | | 311 |
| | | | | | | |
| 35 | SEQ ID NO:4600 | | | | | |
| | SEQUENCE LENGTH: 221 | | | | | |
| | SEQUENCE TYPE: nucleic | acid | | | | |
| | TOPOLOGY: linear | | | • | | |
| | CLONE: HUMGS05455 | | | | | |
| 40 | SEQUENCE DESCRIPTION: | | | | | |
| | GATCCTGCCT TTTCNTTTTC | CCCACAACTT | CACGCCAGNA | GTTCGTTCAC | ATCAGGTAAA | 60 |
| | TCTTGAGAAA GCCTTGGTGC | CCTCCTCCCC | ACCCCCCACT | CAGTAACCAC | GTGCGTGCAC | 120 |
| | CCCCGNATCC TTTCTCAGTA | GTTAAGACGT | TCTAGGCAAT | ACCATAGACA | CATCTGACTG | 180 |
| 45 | TGTCTCTNTC TTTGAGTGCA | | | | | 221 |
| | | | | | | |
| | SEQ ID NO:4601 | | | | | |
| | SEQUENCE LENGTH: 176 | | | | | |
| 50 | SEQUENCE TYPE: nucleic | acid | | | | |
| | TOPOLOGY: linear | | | | | |
| | CLONE: HUMGS05456 | | | | | |

| | SEQUENCE DESCRIPTION: | | | | | |
|------|-----------------------|------------|------------|------------|------------|-----|
| | GATCAGAGCA GCTACACTGA | AGCAAAAACC | CCAGCGCCCA | ACGCTAAATA | TATTGCAATG | 60 |
| | GAGAAACCGT CCACAATGGG | GTGTCTCTGT | CCTTAGCAGA | GCCTTGGGGC | TGCCGTTTAA | 120 |
| 5 | GACCCTCCTG CTACTCCCAC | CCTTTTAGCA | TCTAGTAAAC | CACGCGCTGT | AACAAA | 176 |
| | | | | | | |
| | SEQ ID NO:4602 | | | | | |
| | SEQUENCE LENGTH: 293 | | | | | |
| 10 . | SEQUENCE TYPE:nucleic | acid | | | | |
| | TOPOLOGY: linear | | | | | |
| | CLONE: HUMGS05458 | | | | | |
| | SEQUENCE DESCRIPTION: | | maa.amaa | | | |
| 15 | GATCTCTATC ACTTTGCCAC | | • | | | 60 |
| | ATACTTCGTT TACAAATATA | | | | | |
| | TTTNGAAATG CTAGTAATGT | | | | | |
| | TTCCTTAAGA TGGTTACAGC | | | | | |
| | ATACNAGNCC NGGCCAANAN | AAANIAGGAN | CAAAAACCIN | 0000011010 | AAA | 293 |
| 20 | SEQ ID NO:4603 | | | | | |
| | SEQUENCE LENGTH: 184 | | | | | |
| | SEQUENCE TYPE:nucleic | anid | | | | |
| | TOPOLOGY: linear | aciu | | | | |
| 25 | CLONE: HUMGS05459 | | | • | | |
| | SEQUENCE DESCRIPTION: | | | | | |
| | GATCAGGGAT GGGGATGAGG | TGAGGGGATT | TGCTAGAAAG | GGGTGCAAAG | GAATTTAGCG | 60 |
| | GGTGATGGAG CTGTTCTGTG | | | | | |
| 30 | TGTNGTATTG AATTTTACTG | | | | | |
| •• | CAAA | | | | | 184 |
| | | | | | | |
| | SEQ ID NO:4604 | | | | | |
| 05 | SEQUENCE LENGTH: 372 | | | | | |
| 35 | SEQUENCE TYPE:nucleic | acid | - | | | |
| | TOPOLOGY:linear | | | | | |
| | CLONE: HUMGS05460 | | | | | |
| | SEQUENCE DESCRIPTION: | | | | | |
| 40 | GATCAAGGAA TCTTTCATGA | AGGAAATTTA | AATACAGAAT | GAAACATTAA | NGGTAAAAGT | 60 |
| | GGAGTAATTA TTTAAATTAT | GTGTATAAAA | GGAATCAAAT | TTTGAGTAAA | CATGATGTAT | 120 |
| | TACATCATCT TCGGAAATAG | ATATGATGGA | TTCTAGTGAA | GACCAAANTT | ACTTCTGTTT | 180 |
| | ACTITCTATC AGGAAGCATC | | | | | |
| 45 | CAAATGANAA NTTTTNNGTC | CATTTTTNGC | ATAGCCTAAT | GGTAGACTNG | GAATAANAGT | 300 |
| | TCTGTATTTN TGGGATTTCC | NGNGTATAAN | NCTGGTTTCT | AGNTGGGGCG | TTAAGTCCCN | 360 |
| | TTTGGGTAAA NN | | | 200 | | 372 |
| | SEQ ID NO:4605 | | | · | | |
| 50 | SEQUENCE LENGTH: 279 | | | | - | |
| | SEQUENCE TYPE:nucleic | acid | | | | • |
| | | | | | | |

| 5 | TOPOLOGY:linear CLONE:HUMGS05461 SEQUENCE DESCRIPTION: GATCATGTAG GACGCGGCAT GTCTACGAAA AANAAATAGT GTCCCTGGTT TTTGCAAGTN CCTCCTGTNC ATTTAGAACT CCCAGAGTCT CTGTTTGATT | TAGTCACCTT CTGCATTTCC ATGCAAAGAC | CTNACCTTCT GCCGAGAATC TCCGNTTCCG | CCTCTTTCTC CGCGTTGCCT | AAAGCCTTCT ACTGCTGCCA | 120 180 |
|----|---|--|--|--|--|------------|
| 15 | SEQ ID NO:4606 SEQUENCE LENGTH:324 SEQUENCE TYPE:nucleic TOPOLOGY:linear CLONE:HUMGS05462 | acid | | | | |
| 20 | SEQUENCE DESCRIPTION: GATCGAATTT CACATTGTAG AACGGCTTGA GTGGATGGCT GCTTGAAATA TGGACCAGTA TAANTTCAAA CTTCACAGNA ACTCNCTTGT CTTCACAGAC | AATATAAAAG TTCTAAAGTA CTTTGCAGCA | TTGTTGGCCA TCAGCTACTG GTTCACCACC | TAATGCCACA GGGTCTCATT AGGCGGGACT | CCTCTCATCT CACTACAAGA GTGTCTGCAA | 180 240 |
| 25 | TGGGGAGTGN NGGTTTTNTG | GGNN | | | | 324 |
| 30 | SEQ ID NO:4607 SEQUENCE LENGTH:225 SEQUENCE TYPE:nucleic TOPOLOGY:linear CLONE:HUMGS05464 SEQUENCE DESCRIPTION: | acid | | | | |
| 35 | GATCACAGAC CTAAGGCCCA CCCCTTAACC TGGGAGGCAG GAACGGCTGA GCGCCGAGGG GCCACCACCT TGCGCCTGGC | CGACACGTGT CCACTTNTTC | NACTTCTGTA CACCGGNAGT | AGAAACGTGT NTTTCCGATG | GTACGTAATG | |
| 40 | SEQ ID NO:4608 SEQUENCE LENGTH:251 SEQUENCE TYPE:nucleic TOPOLOGY:linear CLONE:HUMGS05465 | acid | | | | |
| 45 | SEQUENCE DESCRIPTION: GATCTAAATN CAGACTNNGG TCAGTCATTC GTTCATCTGT TGCATGGNTT TCATCTTTNA | CAAACACGTA | TTTGGACATC | AAGGTTGCAG | AGATGAACAA | 120 |
| 50 | TAACACATGA AGGTCAAGTA AGNAGGATGN N | AGTNCTGCAG | TAAAGGTACT | AATAACATGT | TCCTTGGNNC | 240 251 |

| | SEQ ID NO:4609 | | | | | |
|----------------|---------------------------------------|------------|-------------|--------------|--------------|-----|
| | SEQUENCE LENGTH: 239 | | | | | |
| | SEQUENCE TYPE:nucleic | acid | | | | |
| 5 | TOPOLOGY: linear | | | | | |
| | CLONE: HUMGS05466 | | | | | |
| | SEQUENCE DESCRIPTION: | | | | | |
| | GATCCAAGTG TTGCCTGTCA | | GAGTGAAGTT | GATGATGATG | GTTAGATGGC | 60 |
| | CTCACAAGGG ACTCTAGTGA | | | | | |
| 10 | GAATATAGTT TCATAATGTT | | | | | |
| | TTCTGTACTA TTTTAAATAA | | | | | |
| | IICIQIACIA IIIIAAAIAA | dididixici | AAATAAACAC | AIAANAIGII | AIUAUIAAA | 200 |
| | SEQ ID NO:4610 | | | | | |
| 15 | SEQUENCE LENGTH: 344 | | | | | |
| | SEQUENCE TYPE:nucleic | aaid | | | | |
| | TOPOLOGY: linear | aciu | | | | |
| | CLONE: HUMGS05467 | | | | | |
| | SEQUENCE DESCRIPTION: | | | | | |
| 20 | GATCATCCTG GCTGGGAGAA | CTCCCACCCA | CCCACCACC | THEACTATEE | CCAACCNCCC | 60 |
| | CTACAGCCGG GATGGGAGGC | | | | | |
| | TATTCGTGTG GAGGAGGTTG | | | | | |
| | TTCTTTTCAC ATCNGGGCNT | | | | | |
| 25 | AGGAGAGAGG AATCCCCTAG | | | | | |
| | | | | | IGCACCIINC | 344 |
| | GGGNGAANTT AAATATNCNN | NAAAIIIICA | AACCAUNGAA | AANN | | 344 |
| | CEO ID NO. 4611 | | | | | |
| | SEQ ID NO:4611 SEQUENCE LENGTH:128 | | | • | | |
| 30 | | :3 | | | | |
| | SEQUENCE TYPE:nucleic | acio | | | | |
| | TOPOLOGY: linear | | | | | |
| | CLONE: HUMGS05468 | | | | | |
| 35 | SEQUENCE DESCRIPTION: | | ORONO PROCE | T.C.C.T.C.T. | ************ | co |
| | GATCTCTCTC TCTCTCTCCC | | | | | |
| | CAGCATAATG TCTGGTGTGA | TGGGGAGCTA | TTTATTGAAA | INAAAGAIIA | INIALLIGIG | |
| | CCATGAAA | | | | | 128 |
| 40 | 000 ID NO. 4010 | | | | | |
| 4 0 | SEQ ID NO: 4612 | | | | | |
| | SEQUENCE LENGTH: 92 | • • | | | | |
| | SEQUENCE TYPE: nucleic | acid | | | | |
| | TOPOLOGY: linear | | | | | |
| 45 | CLONE: HUMGS05469 | | | | | |
| | SEQUENCE DESCRIPTION: | | | | | |
| | GATCCATTTC TGGGATAGAA | | | TTTTTTCTTG | AAATGGATAT | |
| | GTACAAATAA AATAAATGGA | AGACAGGATA | AA | | | 92 |
| 50 | 670 ID NO 1010 | | | | | |
| | SEQ ID NO:4613 | | | | | • |
| | SEQUENCE LENGTH: 130 | | | | | |

| 5 | SEQUENCE TYPE:nucleic TOPOLOGY:linear CLONE:HUMGS05470 SEQUENCE DESCRIPTION: GATCCAACAC ATTCANGTCA GTTCTATAGT TGTCACCTAA TAGCCGNGGN | GTAGAANCAA | | | | 60 120 130 |
|----|---|------------|-------------------|-------------|-------------|------------------|
| 40 | INCCONGON | | | | | |
| 10 | SEQ ID NO:4614 SEQUENCE LENGTH:279 SEQUENCE TYPE:nucleic | acid | | | | |
| 15 | TOPOLOGY:linear CLONE:HUMGS05471 SEQUENCE DESCRIPTION: | | | | | |
| | GATCACAGCT NCCCTTGAAT | | | | | 60 |
| | CCTAGGGCTA CACAAGAATA | | | | | |
| 20 | TGGTTCATTG CGTCCTCGTG | | | | | |
| | CGAAGAAGAG GGGCCAATGA | | • | GACTCCCAGG | GCTGGGACAT | |
| | TATGTAGGAG CCACTTCATA | AACATTCTCT | TTACTCAAA | | | 279 |
| 25 | SEQ ID NO:4615 SEQUENCE LENGTH:333 | | | | | |
| 20 | SEQUENCE TYPE:nucleic TOPOLOGY:linear CLONE:HUMGS05472 | acid | | | | |
| 30 | SEQUENCE DESCRIPTION: | COTCOTTOOL | TC 1 C 1 TC 1 C C | ****CCTCTCT | TTCCACACCA | 60 |
| | GATCAGTCAT GTGTCCGTAA | | | | | |
| | TGCTCCATGT NCATTCGGAG GAGCGATGGA AGAATGCCAA | | | | | |
| | TGCACACATG CACCCCCTCA | | | | | |
| 35 | TGGTTGGTTT GTCAAANCTC | | | | ~ | |
| | AGCNGNATGG GGGGTACGNT | | | CACTOTOMOT | MINIMATATOT | 333 |
| | Additional dodd Account | Traddomadi | UIN | | | 000 |
| | SEQ ID NO:4616 | | | | | |
| 40 | SEQUENCE LENGTH: 335 | | | | | |
| | SEQUENCE TYPE: nucleic | acid | | | | |
| | TOPOLOGY: linear | | | | | |
| | CLONE: HUMGS05474 | | | | | |
| 45 | SEQUENCE DESCRIPTION: | | | | | |
| | GATCTCTTCC CACCTACCCT | ACCTACTCCT | ACCCAANACC | CCCCTTCCCC | ATTAATGTGA | 60 |
| | GTAATGAATT AGCCTGACCA | CAGGTGGTCA | CTGTAGGCTA | ATGGAAAATA | CCCAAGGGNG | 120 |
| | GGCAAAGCCC CCCATCAGAT | GCATGAAGGT | TTGCNAATGT | TGACTGCCAC | TGCCCCACAC | 180 |
| | ACTGTGTCTT TATAGANTTN | CCCTTTGCCN | CACCCTCTTC | CTGTNTCCAA | CCTGGGACAC | 240 |
| 50 | ANCTINGCTC AAAGNGCTGG | TGGNTTGTGG | GGCATTAATC | TACAACCANA | GTCCTGAATG | 300 |
| | CACCCAAACA CCCCCCCACN | CONTTONO | CCNTN | | | 335 |

| | SEQ ID NO:4617 SEQUENCE LENGTH:131 SEQUENCE TYPE:nucleic TOPOLOGY:linear CLONE:HUMGS05475 | acid | | | | |
|----|---|--|--|--|--|-------------------|
| 10 | SEQUENCE DESCRIPTION: GATCCATTCA CATTGCAAAC TCNATTTATA TTGTGTACAT GTGCAAGANT N | | | | | 60 120 131 |
| 15 | SEQ ID NO:4618 SEQUENCE LENGTH:323 SEQUENCE TYPE:nucleic TOPOLOGY:linear CLONE:HUMGS05476 SEQUENCE DESCRIPTION: | acid | | | | |
| 20 | GATCTCAGCT ACGTGGGAGG GCAGTGAGCC AAGATTGTNC AAGTCCACAT CTTCATGANC | CAGCCTGGGC | GACAGGGTGA | GGCTCTTGTC | TCAAAAAAA | |
| 25 | TTTTGTGGGA ATTGCCTTTN CTCANGAGNC TGGNTATCCC ATGANTCTAN ATCCTTCTCA | CCGAGANTGG | | | • | |
| 30 | SEQ ID NO:4619 SEQUENCE LENGTH:346 SEQUENCE TYPE:nucleic TOPOLOGY:linear CLONE:HUMGS05477 | acid | | | | |
| 35 | SEQUENCE DESCRIPTION: GATCACCTCT CTGTATCCCC CGCGGCCCCA CATTGCACTT TTTNATGGTT TAGTCATTGC CTTCTTTTGG CCCTCCGCCC | CTGGGGGGTG AGAGTTCTTA CCGCAGGCTT | ACCGACTTCG TTTTGGGGGG CTGTGTGCTG | TACACGGGTT AGGGAAAGGG CTAACTGTAT | TAAAGTTTAT GGCTAGTCCC TTATTGTNAT | 120 180 240 |
| 40 | GCCTTGGTCA GGGCCCCTCT CNTGTGCTGT GTGGAGTGGN | | | | AGCCCNTATC | 300 346 |
| 45 | SEQ ID NO:4620 SEQUENCE LENGTH:343 SEQUENCE TYPE:nucleic TOPOLOGY:linear CLONE:HUMGS05478 SEQUENCE DESCRIPTION: | | | | | |
| 50 | GATCTTTTTA AGGATAGACG CATTGTAACC ACTATCCTCA | | | | | |

| | TGTCATTTTG TATGTGTTGT GGTGATACTA TGTCAGTTTA | | | | | |
|----|--|-------------------------|---------------------|-----------------|------------|-----|
| | TTATTTGTNC ATAGGCTGTC | - | | | | |
| 5 | AGGGTGTTTC TCCCTTGNTT | | | | MIIOIOMINA | 343 |
| | Addition 1000114 | 0.1010100.11 | | | • | 0.0 |
| | SEQ ID NO:4621 | | | | | |
| | SEQUENCE LENGTH: 50 | | | | | |
| 10 | SEQUENCE TYPE:nucleic | acid | | | | |
| | TOPOLOGY: linear | | | | | |
| | CLONE: HUMGS05479 SEQUENCE DESCRIPTION: | | | | | |
| | GATCCTTCTG TGCTTGCTTG | <i>ር እ ፕሮ</i> ፕኖኖ ል ል ፕ | 1.1.1.C.1.C.1.T.C.T | TOCOCCOLA | | 50 |
| 15 | datecticid idelidella | CAICIIIAAI | WWWWWINI | ICCCGGCAAA | | 30 |
| | SEQ ID NO:4622 | | | | | |
| | SEQUENCE LENGTH: 170 | | | | | |
| | SEQUENCE TYPE:nucleic | acid | | | | |
| 20 | TOPOLOGY: linear | | | | | |
| | CLONE: HUMGS05480 | | | | | |
| | SEQUENCE DESCRIPTION: | | | | | |
| | GATCCAGCTA GGCTGGGACA | | | | | |
| 25 | GAATGGCAGA GAGTGATTCT | | | | AAGGCATCTC | 120 |
| 23 | AGTCAAATCC CCATCACTGT | CATAAATNCA | GNGGNAATNG | NCTGNACAAA | | 170 |
| | SEQ ID NO:4623 | | | | | |
| | SEQUENCE LENGTH: 290 | | | | | |
| 30 | SEQUENCE TYPE: nucleic | acid | | | | |
| 30 | TOPOLOGY: linear | aciu | | | | |
| | CLONE: HUMGS05481 | | | | | |
| | SEQUENCE DESCRIPTION: | | | | | |
| | GATCCTCTCT GTGTAAATCC | TGCCCGGTGC | TGTNAAGGCT | GGACGGTGGA | GGACCTGCTG | 60 |
| 35 | GGGTCTCCTG GNACCCGCCT | | | | | |
| | GCTGCCTGAG GCCCCAGAAC | TCGTCTGTAA | ACCACCTTTT | CCAGCCAGAG | TTCCCAAAGC | 180 |
| | TGGAACGCTA GCTGCCTGCT | CTTCCTTAAG | NTGGCCTCCC | CCNGACCCGT | CANGGTCCTC | 240 |
| | AGTTGCCAGG GCTGGGGCCA | NCCACTGTNA | CACTGNGGNN | TGCANGANAN | | 290 |
| 40 | | | | | | |
| | SEQ ID NO:4624 | | | | | |
| | SEQUENCE LENGTH: 125 | | | | | |
| | SEQUENCE TYPE:nucleic | acid | | | | |
| 45 | TOPOLOGY: linear CLONE: HUMGS05482 | | | | | |
| | SEQUENCE DESCRIPTION: | | | | | |
| | GATCCAGCTT CAGCTGCACA | CCTCTCTCCC | CTTCC 4 TCCC | CAACTAACCC | AAAACCTCTC | £0 |
| | TTGTATCACT GAAGTTTTTT | | | | | 120 |
| 50 | TTAAA | ~ | IMINOUIUI | O I WINI I III. | DHODOONU | 125 |
| | | | | | | |

| | SEQ ID NO:46 | 625 | | | | | |
|----|---------------|-------------------|------------|------------|------------|------------|-----|
| | SEQUENCE LE | NGTH: 252 | | | | | |
| | SEQUENCE TYP | PE:nucleic | acid | | | | |
| 5 | TOPOLOGY: lin | | | | | | |
| | CLONE: HUMGSO | | | | | | |
| | SEQUENCE DES | | | | | • | |
| | GATCCTGACC (| CCAGCCAACA | GCTGAGCTGC | CGGGCCTCCT | CGAGGCCCTA | AGCCAGCCCC | 60 |
| 10 | AGAGGTCCCA 1 | | | | | | |
| 70 | TTTNTGTTTN 1 | | | | | | |
| | CTGTCTCTCT C | | | | | | |
| | GGCCCAGTGA A | | | | | | 252 |
| | | | | | | | |
| 15 | SEQ ID NO:46 | 526 | | | | | |
| | SEQUENCE LEN | NGTH: 334 | | | | | |
| | SEQUENCE TYP | E:nucleic | acid | | | | |
| | TOPOLOGY: lin | near | | | | | |
| 20 | CLONE: HUNGSO | 5484 | | | | | |
| | SEQUENCE DES | SCRIPTION: | | | | | |
| | GATCGTNACA A | ATCTNCCCT | CCTCACCAGC | TAGTCTGGGG | TTTCCTCTCC | CTGCCCCAGG | 60 |
| | CCAGAACTGC C | CTTCTTCATT | TCCACCCACG | CTCCCAGCCT | CTTAGCTGAA | AGCACAAATG | 120 |
| or | GTGAAATCAG 1 | CAGTCTCGNT | CCATCTNNAA | TAGACTAAAC | CTAAATGCCT | CTAGGACGGA | 180 |
| 25 | CTGTTGCTAT C | CAAGNGTTT | GGTGTTACCT | TCTCCTGGGA | GGTCCTGCTG | CAAACTCAAG | 240 |
| | TTCCNCAGGA 1 | CGGTCAAGNT | GTCANGANAT | ACAAGTTTNC | ATCAATTGTA | ATTATTACCT | 300 |
| | GGTCTTTNCA A | ANTTTGCAAN | GGNGTTTTGG | GNTN | | | 334 |
| 30 | SEQ ID NO:46 | 327 | | | | | |
| | SEQUENCE LEN | | | | | | |
| | SEQUENCE TYP | | acid | | | | |
| | TOPOLOGY: lin | | | | | | |
| | CLONE: HUMGSO | | | | | | |
| 35 | SEQUENCE DES | | | | | | |
| | GATCTTCCAT C | | GTAAATCCCT | AAGTGNCTCA | ACTGCCCTCT | CCCTGGCAGC | 60 |
| | CATCTTGTCC C | | | | | | 120 |
| | GGANTGGGCT T | CNCAAGGTNG | GNGTNTCTGT | AAAATCAACA | GGTAATAAAA | ACTGTGTATG | 180 |
| 40 | AGNCCNGGCA A | LA | | | | | 192 |
| | | | | | | | |
| | SEQ ID NO:46 | | | | | | |
| | SEQUENCE LEN | | | | | | |
| 45 | SEQUENCE TYP | | acid | | | | |
| | TOPOLOGY: lin | | | | | | |
| | CLONE: HUMGSO | | | | | | |
| | SEQUENCE DES | | | | | | |
| 50 | GATCTACAAT N | | | | | | |
| - | ATCAAGTGTT G | | | | | | |
| | ACGTGATATN A | LAAACAAATG | TCTACACAAA | AACTTGTGCA | CAGATGTTCT | TTGCAGCATT | 180 |

| | ATTTATAATA GCCCAAAATT ANAACGTGGC ATATCCATNC GGTATGCACC ACTCN | | | | | |
|----|--|--------------------------|--------------------------|--------------------------|--------------------------|------------|
| 5 | | | | | | |
| 10 | SEQ ID NO:4629 SEQUENCE LENGTH:51 SEQUENCE TYPE:nucleic TOPOLOGY:linear CLONE:HUMGS05488 SEQUENCE DESCRIPTION: GATCTGAAAT NATGGTTCAA | | CATAATAAAA | CTCTT A A C A A | Δ | 51 |
| | UNICIONANI INIGUIICAN | AAAATACATT | UNIMIMAM | UTCTTANCAA | А | 31 |
| 15 | SEQ ID NO:4630 SEQUENCE LENGTH:337 SEQUENCE TYPE:nucleic TOPOLOGY:linear CLONE:HUMGS05490 | acid | | | | |
| 20 | SEQUENCE DESCRIPTION: GATCAATGCC CNTNTNTCAG CTGGCCCAGC TTACAGATGC | | | | | |
| 25 | TCTTTAGTAN CACGGACAAG TGGCAGTAGC TGCCGATGTC CTCGTGGTTT CAGTNTCCGT | GCTCCTCGCC TGTCCCCAGC | AAGGAACTCG TNCACCATTC | TGGCAGAAGA CTCCCTGTGG | GGGCAGCAGT CTGTGCCATG | 180 240 |
| | GCTTNGGGGG TCCCAGGGCT | | | Manufact ou | 0,11,01,01 | 337 |
| 30 | SEQ ID NO:4631 SEQUENCE LENGTH:90 SEQUENCE TYPE:nucleic TOPOLOGY:linear | acid | | | | |
| 35 | CLONE:HUMGS05491 SEQUENCE DESCRIPTION: GATCTGTCTA TTTCGTTCAT | CCATAGTTGC | CTNACTCCCC | GTCGTGTAGA | TAACTACGAT | 60 |
| | ACGGGAGGC TTACCATTTC | TTCCCTGAAA | | | | 90 |
| 40 | SEQ ID NO:4632 SEQUENCE LENGTH:97 | | | | | |
| _ | SEQUENCE TYPE:nucleic TOPOLOGY:linear CLONE:HUMGS05492 | ac10 | | | | |
| 45 | SEQUENCE DESCRIPTION: GATCAAAGGC TCTTTCCTCT TCTATTTNAA AATAAATTTT | TTTGTTTGAG | | TTTAAAGCTT | AATGTATGTT | 60 97 |
| 50 | SEQ ID NO:4633 | | | | | |
| | SEQUENCE LENGTH: 320 | | | | | |

| 5 | SEQUENCE TYPE:nucleic TOPOLOGY:linear CLONE:HUMGS05493 | acid | | | | |
|----|--|------------|----------------------|------------|------------------------|-----|
| 5 | SEQUENCE DESCRIPTION: GATCATCGTA TGCAACAGCT | GGGTAATAAG | ACTGGCATAG | CTCAAACTAT | CCTCCCAAAC | 60 |
| | GCTCTCATCT GATTTTTCCT | | | | | |
| | AATTCATTTG TCATTCAAAG | | | | | |
| 10 | TATAATTTTG TGGTGTATTT | TTGTCAGTAG | GTAGCAGAGG | CGGAAGTATT | TTTTGGTGTA | 240 |
| | ATTCTTGAAA TTTTCTGACA | GGAAACCGGN | TAAAGATAGA | TGTGTCTGAG | GNTAAAAAAN | 300 |
| | GTTNGGNNNG NNNTGNTTTN | | | | | 320 |
| | SEQ ID NO:4634 | | | | | |
| 15 | SEQUENCE LENGTH: 146 | | | | | |
| | SEQUENCE TYPE:nucleic | acid | | | | |
| | TOPOLOGY: linear | | | | | |
| | CLONE: HUMGS05494 SEQUENCE DESCRIPTION: | | | | | |
| 20 | GATCTATGAA ATAGGTAACA | TTTCAGTAGG | ጥር ምር ልጥጥጥ ልል | ANATACTTCC | ፓር እ ለ ፓር ፓር እር | 60 |
| | NTATGCCTTC TATGTTGTTT | | | | | |
| | ATTTGTATTA AGTAATCTAT | | 0 | | Olouniunin | 146 |
| 25 | | | | | | |
| | SEQ ID NO:4635 | | | | | |
| | SEQUENCE LENGTH: 177 | ., | | | | |
| | SEQUENCE TYPE:nucleic TOPOLOGY:linear | acid | | | | |
| 30 | CLONE: HUMGS 05495 | | | | | |
| | SEQUENCE DESCRIPTION: | | | | | |
| | GATCTATCCA GCTGCTTCCT | TGTAGCCAAG | AATGTGTTCA | ATGAATTGTG | ATTCACTGAT | 60 |
| | TTTATTGATT TTGTTTTAAA | | | | | |
| 35 | TTTCTNTATT AATNNCTTTG | TAATCATCTT | ATTAAAGTTT | TCTTATTTAG | TGGGAAA | 177 |
| | CEO ID NO. 4000 | | | | | |
| | SEQ ID NO:4636 SEQUENCE LENGTH:103 | | | | | |
| | SEQUENCE TYPE:nucleic | acid | | | | |
| 40 | TOPOLOGY: linear | 40.4 | | | | |
| | CLONE: HUNGS05496 | | | | | |
| | SEQUENCE DESCRIPTION: | | | | | |
| | GATCCTCTCC TTGTATGTAA | | | | TTCAAAAGAA | 60 |
| 45 | CTCTGTACAT TTTAACATAA | TTAAATAAAA | ATGTTGAGCC | AAA | | 103 |
| | SEQ ID NO:4637 | | | | | |
| | SEQUENCE LENGTH: 145 | | | | | |
| 50 | SEQUENCE TYPE:nucleic | acid | | | | |
| | TOPOLOGY: linear | | | | | |
| | CLONE · HIMCSOSAD7 | | | | | |

| | The state of the s |
|------------|--|
| | SEQUENCE DESCRIPTION |
| | GATCCATTTG TAACTACTCT TAATATATGG TACATAGTTT AAAAAATTTN ATTGAGCTTA 60 |
| | AAGTGTATCT AGTTTTGTGT CCTAATTATC CTGCTTAACC TTCTATTGTA AGGNTTTNCC 120 |
| 5 | ACGTCAATAA ATATTATAAT GTAAA 145 |
| | SEQ ID NO:4638 |
| | SEQUENCE LENGTH: 279 |
| 10 | SEQUENCE TYPE:nucleic acid |
| - | TOPOLOGY: linear |
| | CLONE: HUMGS05498 |
| | SEQUENCE DESCRIPTION: |
| | GATCANCAAA CTCAACACCA TCTTGCAGGA GCAACGGGNT GGCCTTTAAC ATTGCTGAGG 60 |
| 15 | CTTTCAAAGA TGTGTCAGAA CCCATTGTAT TTCTGCAACA GATGCAGGAG TTTAGAGAGA 120 |
| | AAATCAAAGT AATCAAGGAA ACTCCTTTAC CTCCCTCTAA TTTGCCTGCA AGCCCTTTAA 180 |
| | TGAAGAACTT TGATACCAGT CAGTGGGAAG ACATAAAACT AGTCGGTGTG GATAAACTTT 240 |
| | CTTTGCCTCA AGACACTGGC ACATTCATTN GCAAGGNTN 279 |
| 20 | 000 to No 4000 |
| | SEQ ID NO: 4639 |
| • | SEQUENCE LENGTH: 242 |
| | SEQUENCE TYPE:nucleic acid TOPOLOGY:linear |
| 25 | CLONE: HUMGS05502 |
| | SEQUENCE DESCRIPTION: |
| | GATCAGAGCA AAGAGAAAAG AAAGCATAAG GACACTTACT CAACAGAAGC ACCTTTAGGC 60 |
| | GAAGGAACAG AACAATATGT CAATAGTATC TCAGATTGAC CATTTCTGTT ACTTGTCATT 120 |
| ~~ | TCTACTTTCA GAAACTAAAT GACTTTCAAA TTTGGGTATA GACAATAAAG AACTGAAGTG 180 |
| 30 | CTCACTACTC AGTGATTTGG AAATTTTGAT GCTTGTATAA ATGTCAGATA ATTAATTTCN 240 |
| | AN 242 |
| | SEQ ID NO:4640 |
| 35 | SEQUENCE LENGTH: 64 |
| • | SEQUENCE TYPE:nucleic acid |
| | TOPOLOGY:linear |
| | CLONE: HUNGS05503 |
| 40 . | SEQUENCE DESCRIPTION: |
| | GATCTTGTTA GACACATGAA TGTGTATAAT CATGTTAAAT GCAAATAAAA CTAGTTCATA 60 |
| | GAAA 64 |
| 4 5 | SEQ ID NO:4641 |
| | SEQUENCE LENGTH: 62 |
| | SEQUENCE TYPE:nucleic acid |
| | TOPOLOGY:linear |
| | CLONE: HUNGS05504 |
| 50 | SEQUENCE DESCRIPTION: |
| | GATCATNAAG GTAAGGACTG GAGTNATGCA GCCACAAACC AAGGAATATC AGTAGCCATA 60 |

| | AA . | 62 |
|----|--|------------|
| 5 | SEQ ID NO:4642 SEQUENCE LENGTH:339 SEQUENCE TYPE:nucleic acid TOPOLOGY:linear | |
| 10 | CLONE:HUMGS05505 SEQUENCE DESCRIPTION: GATCAGTNCT AACCCTGAGC TGGCGGCTAT CTTTGAAAGT ATCCNGAAAG ATTCATCATC TACTAACTTG GAATCAATGG ACACTAGTTA GATGTTTGTT CACCATGGGG ACCATTACAT | 60 |
| 15 | ATGACCATAC AATGCACTGA ATTGACAGGT TAATCATAAG ACATGGAAAG AGAAGTGTCT AAAAAGCTTCA AAATGTTCCA CTTTTTTTT CCTTCATGGN GACTGTTTGT TTGGCTTTCT TCCATTGTNG TTTTTGTAGC ATTTATTTCA GAAATGTGTA TTTCCATAAT CCAGAGGTTG | 180 240 |
| 20 | SEQ ID NO:4643 SEQUENCE LENGTH:70 SEQUENCE TYPE:nucleic acid TOPOLOGY:linear | |
| 25 | CLONE:HUMGS05506 SEQUENCE DESCRIPTION: GATCTTCCTC CTTATTTTAA TGCTTCTTTC TCTTTACAAT TAAAAGTTCA TAAAATCTTT CAACATTAAA | 60 70 |
| 30 | SEQ ID NO:4644 SEQUENCE LENGTH:57 SEQUENCE TYPE:nucleic acid TOPOLOGY:linear | |
| 35 | CLONE: HUMGS05507 SEQUENCE DESCRIPTION: GATCAGCCCT AATNATGCTG TGTCCATGAT GCTTTTAATA AAAACAACCC CCACAAA | 57 |
| 40 | SEQ ID NO:4645 SEQUENCE LENGTH:158 SEQUENCE TYPE:nucleic acid TOPOLOGY:linear | |
| 45 | CLONE:HUMGS05508 SEQUENCE DESCRIPTION: GATCTCTATG CCCAATATGC TGCCTCAACT CTGAGCTGTC TGCAAGGCTT AGTAAGTATT GAGTGGTGTT TTTTTTTTC NTTTTATACA ATACCATNTT AACCACATGA GTTAAATAAA TTTGAGAAGT TNTTTTAAAA CAGTGCTTCA AACTGAAA | |
| 50 | SEQ ID NO:4646 SEQUENCE LENGTH:153 SEQUENCE TYPE:nucleic acid | • • |

| 5 | TOPOLOGY:linear CLONE:HUMGS05509 SEQUENCE DESCRIPTION: GATCCCCGGG TACNANTNAN CATTCTGTAC AGGTAGCTAA TGGTGTAAAT AAACTGCATC | CTTTGTAAAC | GCTGTGTATT | | | 60 120 153 |
|----|---|------------|------------|------------|------------|------------------|
| 10 | SEQ ID NO:4647 SEQUENCE LENGTH:342 SEQUENCE TYPE:nucleic TOPOLOGY:linear CLONE:HUMGS05510 | acid | | | | |
| 15 | SEQUENCE DESCRIPTION: GATCCAGAAG TCATTAAAAG GAAAATCCTA ANAGCTTAAC | | | | | |
| | TTAAATCATA GAGCTGCCCC | | - | | | |
| | AAACTATCAG TTAGAAAAAT | | | | | |
| 20 | TGGATATANT TATCACAAAT | | | | | |
| | GTGTCCTAAT TACATGCCAC | | | | | 342 |
| 25 | SEQ ID NO:4648 | | | | | |
| | SEQUENCE LENGTH: 333 SEQUENCE TYPE: nucleic | acid | | | | |
| | TOPOLOGY:linear | | | | | |
| | CLONE: HUMGS05511 | | | | | |
| 30 | SEQUENCE DESCRIPTION: | | | | | |
| | GATCGCTACG GTTCTAAATA | CTGAAGTCAT | GATGTGTATT | TCCNGGAGAA | ATTCCTCTTT | 60 |
| | AAATGAACAA GTAACCACAT | CTCAGGCGGC | AGTGAAGTCC | AGATAGTTTT | GCAGATTGTT | 120 |
| | TTGCTACTTN TNCATATGGT | ATATGTTTCT | GNTTTTAAAT | ATTNCTNTTG | AGAAATTCTG | 180 |
| 25 | AGINCIGATG TAGGAGCITT | CCTGTNATNN | CTGTTTCACG | TTCCTTCCTG | TCACACCCTC | 240 |
| 35 | CTTGTGGCGT CTCTGTGTAT | ATCCTNGGCT | TTATTTTCTN | GGANCCTTGN | GATTTCAACA | 300 |
| | CTGNGGGCCT GGAGACCTCG | GCTCCTNCTG | GTN | | | 333 |
| | SEQ ID NO:4649 | | | | | |
| 40 | SEQUENCE LENGTH: 187 | | | | | |
| | SEQUENCE TYPE:nucleic | acid | | | | |
| | TOPOLOGY: linear | | | | | |
| | CLONE: HUMGS05513 | | | | | |
| 45 | SEQUENCE DESCRIPTION: | | | | | |
| | GATCATGAGA AATTACCAAA | ATGTCCACCA | ATAGAATGAG | TGAATCACCT | GTGGTATATT | 60 |
| | TATAAATAAA AATATTAANT | AGAAGGTAAA | ACAAATCAGA | CATACACACA | TTAGATAGAT | 120 |
| | AAATTTAGAG GAAAAAAAA | AAACCATGCA | AGNTTCAGCT | NCNCGNGTNC | TNTGGTGNCA | 180 |
| | CCTAANN | | | | | 187 |
| 50 | | | | | | |

SEQ ID NO:4650

| 5 | SEQUENCE LENGTH: 228 SEQUENCE TYPE: nucleic TOPOLOGY: linear CLONE: HUMGS05514 SEQUENCE DESCRIPTION: | acid | | | | |
|----|--|---------------|------------|------------|------------|-----|
| | GATCGAGGGG GTATGCGTGG | GGGAGTTGTG | AGTGAGCTCA | GCTCCTTTCA | GGCCTGGCCT | 60 |
| | CTCCCAGAAC AGAGTGAAGC | CCCTGCCCTG | GACCCCTGCT | CCCTTCTACC | CTTGAGGGCC | 120 |
| 10 | ACCAATGGAA GAGCCCGCCC | | | | GCTCTGCCCC | |
| | CAACTTTGTT TTCTCTCATG | TTCTCAATAC | ACTCTGCCTC | AAATCAAA | | 228 |
| | SEQ ID NO:4651 | | | | | |
| | SEQUENCE LENGTH: 300 | | | | | |
| 15 | SEQUENCE TYPE:nucleic | acid | | | | |
| | TOPOLOGY: linear | | | | | |
| | CLONE: HUMGS05515 | | | | | |
| | SEQUENCE DESCRIPTION: | | | | | |
| 20 | GATCTGTAGT TAAGGGAACC | AAGGGGTCAT | TGGGGCAAAA | GCATTGTTTC | TCAAAGCTCC | 60 |
| | TTGATTAAGA GAAAGAACAG | AAATTTGCAC | AGAAGATAGT | GTCAAGGAGT | GAGAAAGTTT | 120 |
| | GTTTGAGGGC AGTAGCTCAG | TGTGGAAGAA | AATCCTGAAG | TTTCTGTTGA | AGCCATACAA | 180 |
| | TGTTCTATGG GGTTACTCTC | TAAGACATTC | TCTGAGGTGT | GTGAGGAAGT | CACTACTCCT | 240 |
| 25 | AGCCTTTGTT AAGATGTAAT | TTTAAATATT | CAGTTATGGT | ACTATGTTTG | CAACTCTCTN | 300 |
| | SEQ ID NO:4652 | | | | | |
| | SEQUENCE LENGTH: 154 | | | | | |
| | SEQUENCE TYPE:nucleic | acid | | | | |
| 30 | TOPOLOGY: linear | acra | | | | |
| | CLONE: HUMGS05516 | | | | | |
| | SEQUENCE DESCRIPTION: | | | | | |
| | GATCAGTTTA TATTGCTCTT | AAATGATAAT | CCTCAGCTTC | CAAGTTTTTG | TGAACTCACT | 60 |
| | TTGGTTTATG TGTTTGCTAC | | | | | |
| 35 | AAAGGAAAAA ACAACAGAGC | | | OCTIGOTION | IIIAIIGIAA | 154 |
| | indication included | On thou thing | O/DDI | | | 101 |
| | SEQ ID NO:4653 | | | | | |
| | SEQUENCE LENGTH: 250 | | | | | |
| 40 | SEQUENCE TYPE:nucleic | acid | | | | |
| | TOPOLOGY: linear | | | | | |
| | CLONE: HUMGS05518 | | | | | |
| | SEQUENCE DESCRIPTION: | | | | | |
| 45 | GATCTTTATG CTGTTATNAC | AGGAGAAGTG | ACATACTTTA | TATATGTTTA | TATTAGCAAG | 60 |
| | GTCTGTTTTT ANTACNATAT | | - | | | |
| | TATCACTGAT ATATGTAGAC | ACTTTTAGAA | TATATTAAAT | CCTTGACCTT | GNGCATTATA | 180 |
| | GCATTCCATT AGCAAGAGTT | | | | | |
| | GTTTTATGNN | | | | | 250 |
| 50 | | | | | | _ |

SEQ ID NO:4654

| | SEQUENCE LENGTH: 240 SEQUENCE TYPE: nucleic TOPOLOGY: linear | acid | | | | |
|----|--|------------|------------|--------------------|-------------|-----|
| 5 | CLONE: HUMGS05519 | | | | | |
| | SEQUENCE DESCRIPTION: | | | | | |
| | GATCCCCACC CCAATTCAAT | | | | | 60 |
| | ATCCTGGCCC CCTGGGCTTG | | | | | |
| 10 | CCCCAGCCTC CTGCCTACCC ACATATATAT TCTACATATA | | | | | |
| | ACATATATA TOTACATATA | IUININIINN | AACIUCACIU | CCATGTCTGC | CCITITIANA | 240 |
| | SEQ ID NO:4655 | | | | | |
| | SEQUENCE LENGTH: 290 | | | | | |
| 15 | SEQUENCE TYPE:nucleic | acid | | | | |
| | TOPOLOGY: linear | | | | | |
| | CLONE: HUMGS05520 | | | | | |
| | SEQUENCE DESCRIPTION: | | | | | |
| 20 | GATCCAAATA GTCAGAAAGA | AAGGAAGGAA | GTGCTGGTAA | ${\tt GAAGGAAGGG}$ | AGGAGCGTAT | 60 |
| | CCTAAAGAAC TACTCCCAAC | TATACAACTG | TTGTTTTCCT | CCCAATTTTC | CTAGGGATTC | 120 |
| | CTCATAATTA TCTCCTTTCT | CTTCATAAAT | TCTACTTACT | GACCTGAAAT | AAAATTTCTC | 180 |
| | ATTTGGTTGT CCTCAAGGTG | CAGAATATGG | ACTTAAGGCT | CCTCCAGACA | ATTCAAATGT | 240 |
| 25 | ATTGTAGACA GTTAAGNTAG | AGTAAAACTC | ACCGTTTTGT | CCCACTGAAA | | 290 |
| 20 | SEO ID NO. 4CEC | | | | | |
| | SEQ ID NO: 4656 | | | | | |
| | SEQUENCE LENGTH: 355 SEQUENCE TYPE: nucleic | | | | | |
| | TOPOLOGY: linear | aciu | | | | |
| 30 | CLONE: HUMGS05521 | | | | | |
| | SEQUENCE DESCRIPTION: | | | | | |
| | GATCGACAGG CATCCACAGT | TGAGTATCTC | CCAGGCATGC | TACATTCAAA | TTGCCCTAAA- | 60 |
| | GGTCTCCTAC CCAAATTCTC | | | | | |
| 35 | TAACTTTCAT ACAGGTTTGG | | | | | |
| | TTGGGACATT GNCATCAGGA | CTAGAGCTGN | AGATGAAGGA | GACTTAGACA | CAAACTCTTG | 240 |
| | GCCTGCTCCA AATAAAGCTA | | | | | |
| | AGANCGGCGA GATGACATTG | NTCGAGCTTN | TNNTGGNCTT | TGAATATNGA | AGTCN | 355 |
| 40 | | | | | | |
| | SEQ ID NO: 4657 | | | | | |
| | SEQUENCE LENGTH: 382 | | | | | |
| | SEQUENCE TYPE: nucleic | acid | | | | |
| 45 | TOPOLOGY:linear | | | | | |
| | CLONE: HUMGS05522 | | | | | |
| | SEQUENCE DESCRIPTION: | | | | | |
| | GATCCGCAAA CGATTAATTC | | | | | 60 |
| 50 | CAAACTTGTC CGATGTTACC | | | | | |
| | ACACTGTCAC ATCCTTTCCT | | | | | |
| | GAGCTGCTCC GTTTCACTTT | CACCONNEGN | CITTATCAAC | TIGTTCAAGT | TUTGGNATUC | 240 |

| | CAGCACATGA CAACACTTCA | GAAGGGTCCC | CCTGCTGACT | NGAGAGCTNG | GGAATATGGC | 300 |
|----|-----------------------|------------|------------|------------|------------|-----|
| | ATTTGGACAC TTCATTTGTT | AAATTAGTGT | ACATTTTTAA | ACATTGGGTT | CGGNNAACTT | 360 |
| | TCAGNGGTNA GGTCGGNGNN | TN | | | | 382 |
| 5 | | | | | | |
| | SEQ ID NO:4658 | | | | | |
| | SEQUENCE LENGTH: 326 | | | | | |
| | SEQUENCE TYPE:nucleic | acid | | | | |
| 10 | TOPOLOGY: linear | | | | | |
| | CLONE: HUMGS05523 | | | | | |
| | SEQUENCE DESCRIPTION: | | | | | |
| | GATCATTAAA AACTTAAAAT | ATATTTTATT | AGAAAACATT | TATCTATGAA | TGAATATTTC | 60 |
| | CTTGATGCTG GTCTCTGCAC | ACATATGCTT | GGTTACTTGC | ATGCATTCAT | TGGTTGTTCA | 120 |
| 15 | ATAAGTGAGA TGATTACAGA | TAACTTAATA | CTGTATTTNC | CTTATATGGA | AAACCGTTAT | 180 |
| | AGACCCAATA ACAACTAANC | CTTTCAAAAG | AAANTATTTN | CTATTATGAN | TGTTGATTTT | 240 |
| | CATACCNAAG AAGATGGAGA | GTCTAAAATT | TGGGNTATGG | ATNCTNGATG | GNNTTTTTAN | 300 |
| | TNGGNAAGCC TTCTTNCAAG | TTTNAN | | | | 326 |
| 20 | | | | | | |
| | SEQ ID NO:4659 | | | | | |
| | SEQUENCE LENGTH: 133 | | | | | |
| | SEQUENCE TYPE:nucleic | acid | | | | |
| 25 | TOPOLOGY:linear | | | | | |
| 25 | CLONE: HUMGS05524 | | | | | |
| | SEQUENCE DESCRIPTION: | | | | | |
| | GATCAGCTTT GCAGTAGATT | ATGCTGCATC | CTCGTGGCAA | AATTCTGTAT | TCTTAGTGAT | 60 |
| | TGTTACAAAC CCCTTTATTG | CTGTCTGAGA | AAGTGAAAGA | TTGTGTATTT | CTATTAAAAC | 120 |
| 30 | ATTTACAATC AAA | | | | | 133 |
| | | | | | | |
| | SEQ ID NO:4660 | | | | | |
| | SEQUENCÉ LENGTH: 264 | | | | | |
| 35 | SEQUENCE TYPE:nucleic | acid | | | | |
| | TOPOLOGY: linear | | | | | |
| | CLONE: HUMGS05525 | | | | | |
| | SEQUENCE DESCRIPTION: | | | | | |
| | GATCAACATC CGGAGATGGA | TTTTNCCAAG | GCTAAATTCA | ACTAGCCCCT | GTTTTTTCCT | 60 |
| 40 | CCCTGAACTC TTGGGGCTGA | | | | | |
| | CTTGTGGGCC TCAGGGCTTG | | | | | |
| | CATCAGGAGA AAGGCTGGGT | CTTGGGACCT | TGTCCTCCCC | AGTTGGCCTA | CTGTTACACA | 240 |
| | TTAAAACGAT TTGCCCAGNT | CAAA | | | | 264 |
| 45 | | | | | | |
| | SEQ ID NO:4661 | | | | | |
| | SEQUENCE LENGTH: 319 | | | | | |
| | SEQUENCE TYPE:nucleic | acid | | | | |
| 50 | TOPOLOGY: linear | | | | | |
| 50 | CLONE: HUMGS05526 | | | | | |
| | SEQUENCE DESCRIPTION: | | | | | |

| 5 | GATCACCTNT TCCCTTCAAT GGTGTTTCCT ACATGTCTCA CCCATTTAGA ATCAGACATC AGGTTTGAGA TGGTATTGCT AAGTGTCTNC TATTTCATNN TTTGCNGAAA TGNATTTNN | GGGCTGGATG TCCCTTCCCT AAATTTAAAA | CAAACCTGGC GCAAATTGTC TTAAACAAGN | TGGGGACCTG TACAACTACC GACCCANCAN | AGCATCAACT AAATTGCTCC CAGCTTTTTA | 120 180 240 |
|----|--|--|--|--|--|-------------------|
| 10 | SEQ ID NO:4662 SEQUENCE LENGTH:239 SEQUENCE TYPE:nucleic TOPOLOGY:linear CLONE:HUMGS05528 | acid | | | · | |
| 15 | SEQUENCE DESCRIPTION: GATCAAAACA GTGTGGTGCT GAATTAGACC CACACACATA ATGTATAATA GAGAAGACAG AAAAAGTAAA CTTCANCCCA | TGGACAATTG TTTTTTCAA | ATTTTTCAAT CAAACAGTAT | AAGGGCACCA TGGANCAGTT | AAGCCATTCA GNNCNNNTAC | 180 |
| 25 | SEQ ID NO:4663 SEQUENCE LENGTH:68 SEQUENCE TYPE:nucleic TOPOLOGY:linear CLONE:HUMGS05529 SEQUENCE DESCRIPTION: | acid | | | | |
| 30 | GATCTATTTA GTCCTACAAA AACACAAA | TCAGGAGTGG | TGTAGAGACA | TCCAAATTTA | AAGAAAAAA | 60 68 |
| 35 | SEQ ID NO:4664 SEQUENCE LENGTH:122 SEQUENCE TYPE:nucleic TOPOLOGY:linear CLONE:HUMGS05531 SEQUENCE DESCRIPTION: | | | | | |
| 40 | GATCGAGTTT TAAATTGATA TAATGTTAAT GTTATATCAT AN | | | | | 60 120 122 |
| 45 | SEQ ID NO:4665 SEQUENCE LENGTH:196 SEQUENCE TYPE:nucleic TOPOLOGY:linear CLONE:HUMGS05532 SEQUENCE DESCRIPTION: | acid | | | | |
| 50 | GATCAGGGAC GGGGCTGAGC CAGGCCAACT GCTGTGTTTC | | | | | |

| | CATTAATATT TGTGACATAT GTTTTATTGA CATAAA | GAGAATGCTA | TGAAAGTCAA | CTTTGCTATC | CATAAATAAA | 180 196 |
|----|--|------------|------------|------------|------------|------------|
| 5 | SEQ ID NO:4666 | | | | | |
| | SEQUENCE LENGTH: 316 | | | | | |
| | SEQUENCE TYPE:nucleic | acid | | | | |
| | TOPOLOGY: linear | | | | | |
| 10 | CLONE: HUMGS05533 | | | | | |
| | SEQUENCE DESCRIPTION: | | | | | |
| | GATCAGATTG CTCAACTCCA | | | | | |
| | AGATATAAAT GTGGATTGTT | | | | | |
| 15 | AAAAGTAACC ATATTTCAAT | • | | | | |
| | ATTAGTCTCA TTATTAATTC | | | | | |
| | NNTGANTAAN TGACCTATAA | NIAIIIGGIG | CCIGANGAAG | ICACITIGCI | ALIANINAIA | 316 |
| | CGGTGTAGNG TGTGGN | | | | | 210 |
| 20 | SEQ ID NO:4667 | | | | | |
| | SEQUENCE LENGTH: 168 | | | | | |
| | SEQUENCE TYPE:nucleic | acid | | | | |
| | TOPOLOGY: linear | | | | | |
| 25 | CLONE: HUMGS05534 | | • | | | |
| | SEQUENCE DESCRIPTION: | | | | | |
| | GATCTCAGGG AAGCCTGGGA | | | | | |
| | CGTACCCCCA CAGAGCCTTA | | | | TGTTTCATGG | |
| 00 | AAAACAAGCC TTGGAAATAA | ATCTCTATTA | AACCGCTTTG | IAAUUAAA | | 168 |
| 30 | SEQ ID NO:4668 | | | | | |
| | SEQUENCE LENGTH: 311 | | | | | |
| | SEQUENCE TYPE:nucleic | acid | | | | |
| | TOPOLOGY: linear | 4014 | | | | |
| 35 | CLONE: HUMGS05535 | | | | | |
| | SEQUENCE DESCRIPTION: | | | | | |
| • | GATCATCCCA TCCTTGACCA | CAGGGACAAG | AGGGCCCCC | TCGCCCCAGC | CCCACCCCAC | 60 |
| | ATGGAGCTCA GGGGGAAGCA | | | | | |
| 40 | GTTCTTGATG CTCACCTGAA | GCCCCTAGAC | GCTGCTAGGA | GGGGGGGCCC | TCCTGGGCCC | 180 |
| | NAAATACCCN TCCGCTTGCC | GCTGCTAGCG | NACCCCTGCA | GTCCAGCGTG | CATCCACCCC | 240 |
| | ACGNACGTCC CGTGCTGTGT | TCCTGGGCCN | TGTCCATGGC | CTNAATAAAC | TCTCTGCTTG | 300 |
| | GGTGTGACAA A | | | | | 311 |
| 45 | SEQ ID NO:4669 | | | | | |
| | SEQUENCE LENGTH: 167 | | | | | |
| | SEQUENCE TYPE:nucleic | acid | | | | |
| | TOPOLOGY: linear | 4014 | | | | |
| 50 | CLONE: HUMGS05536 | | | | | |
| | SEQUENCE DESCRIPTION: | | | | | • |

| | GATCGCAAGC TGTTGATGCA | CAGGCGTCTT | GTTGGCAAGC | CCAGCTTCAG | TTTATGTTAG | 60 |
|----|------------------------|------------|------------|------------|------------|-----|
| | ACAATCAGTA CACATGCTGG | TGTGTTTTCC | AATGGCCAGT | NATAAGAAAT | TAAATAAGTA | 120 |
| | TTTGTGAGAT TTGCTATTTT | TTAATAAAGT | AATTNTTTTA | AATTAA | | 167 |
| 5 | | | | | | |
| | SEQ ID NO:4670 | | | | | |
| | SEQUENCE LENGTH: 118 | | • | | | |
| | SEQUENCE TYPE: nucleic | acid | | | | |
| 10 | TOPOLOGY:linear | | | | | |
| | CLONE: HUMGS05538 | | | | | |
| | SEQUENCE DESCRIPTION: | | | | | |
| | GATCTCATAC TTGTATAGAG | | | | | 60 |
| | ATTTACCAAT GTCATGTATT | CTGAACAAAG | GCAAAAAATA | CAAATTCCTA | CCATTAAA | 118 |
| 15 | | | | | | |
| | SEQ ID NO:4671 | | | | | |
| | SEQUENCE LENGTH: 311 | | | | | |
| | SEQUENCE TYPE:nucleic | acid | | | | |
| 20 | TOPOLOGY: linear | | | | | |
| | CLONE: HUMGS05539 | | | | | |
| | SEQUENCE DESCRIPTION: | | | | | |
| | GATCCTTCAA ATAGGCCCTG | | | | | |
| 25 | GGCTGGGGGA GGGGGCCTAG | | | | | |
| 25 | CATACACACC AGGCCGTCAC | | | | | |
| | TGTCCCATGG CTGGTCAGAG | | | | | |
| | CATTGTCACC CTAGACCCCT | CTTCCTCTCT | CCCNCACCAT | AGTGTGCAAT | AAAGTGTCTG | |
| | TTCTTACCAA A | | | | | 311 |
| 30 | | | | | | |
| | SEQ ID NO:4672 | | | | | |
| | SEQUENCE LENGTH: 338 | | | | | |
| | SEQUENCE TYPE: nucleic | acid | | | | |
| 35 | TOPOLOGY:linear | | | | | |
| | CLONE: HUMGS05540 | | | • | | |
| | SEQUENCE DESCRIPTION: | | | | | |
| | GATCTTGTCA GAGCTGCACC | | | | | |
| | TTTGGGGGGG TTCCTGATTT | | | | | |
| 40 | TAAACTGTAT TAATAAAATC | | | | | |
| | TTAGCTGTTC ACTTTGGTAA | | | | | |
| | TGACGGTGAC CTGTTGGNGG | | | CATGTGCCGN | ACGTGCTCCG | |
| | TGGTACTTAG AGCCCTGGGG | GCCCCGNTCG | GACTCCGN | | | 338 |
| 45 | | | | | | |
| | SEQ ID NO:4673 | | | | | |
| | SEQUENCE LENGTH: 117 | | | | | |
| | SEQUENCE TYPE: nucleic | acid | | | | |
| 50 | TOPOLOGY: linear | | | | | |
| | CLONE: HUMGS05541 | | | | | |
| | SEQUENCE DESCRIPTION: | | | | | |

| | GATCTGTTTA CAAGGTTTG TTATAACTGA TGCAGAGAA | | | | | 60 117 |
|----|--|--------------------------|-----------------------|--------------------------|--|------------------|
| 5 | SEQ ID NO:4674 SEQUENCE LENGTH:279 SEQUENCE TYPE:nuclei | c acid | | | | |
| 10 | TOPOLOGY:linear CLONE:HUMGSO5544 SEQUENCE DESCRIPTION GATCAGTGTT GCTAGTAGC | • | TC AT A A A A C | A T A TTC C C TT | CONALCETOR | co |
| | NTGCNTATTT TTCAAATNA AATTTACTGT GGGGATAAC | TTAATAGATG | TNTGGTACCA | TTTAAAAGTG | GTTGTGTCTG | |
| 15 | AANGGCTTTC TNTGTATTTC | | | GATNCGCCCT | CTGGAGATGC | 240 279 |
| 20 | SEQ ID NO:4675 SEQUENCE LENGTH:137 SEQUENCE TYPE:nucleic TOPOLOGY:linear | e acid | | | | |
| 25 | CLONE:HUMGS05545 SEQUENCE DESCRIPTION GATCTGTAAT AAAATAGTAT CAAAGGTTGA AGTTCTGCTC AACATTTTNC TTATAAA | ACTGGACTGT | | | | 60 120 137 |
| 30 | SEQ ID NO:4676 SEQUENCE LENGTH:259 SEQUENCE TYPE:nucleic | e acid | | | | |
| 35 | TOPOLOGY:linear CLONE:HUMGS05547 SEQUENCE DESCRIPTION: GATCATAAAA ATTAAAATGT | | AATAAAAAGC | AAGACTATGA | AAGGCTCAGA | 60 |
| 40 | TTTCTTGCAG TTTAAAATGC TGTCATTTGA TTTTNATTAT AGAAGGCTGT ACTCAAGAGC TGANTGCAAG CATTGGAAA | TGTCTGAGGT GTAGTTCATC | TGTNCTATTT CAGCCCTTGG | TGGCCAAGTC GCATTGTTAT | TGTAGAAAGC ACACCAGTAA TTAATAAACA | 120 180 |
| 45 | SEQ ID NO:4677 SEQUENCE LENGTH:261 SEQUENCE TYPE:nucleic TOPOLOGY:linear | acid | | | | |
| 50 | CLONE: HUMGS05548 SEQUENCE DESCRIPTION: GATCATCATG ATGAGTTTTC CTGCTTTCTA AATTCGCATT | CCTTATGCCT | | | | |

| | CTGCAATNTT CTGATTGGAG AGGACTTTCA TCAACTTTCA | NGGNAAGATT | | | | |
|----|---|--|--|--|--|------------|
| 5 | GCANTTTNAA AGTNGTCTAA | A | | | | 201 |
| 10 | SEQ ID NO:4678 SEQUENCE LENGTH:183 SEQUENCE TYPE:nucleic TOPOLOGY:linear CLONE:HUMGS05551 | acid | | | | |
| 15 | SEQUENCE DESCRIPTION: GATCCGATTT TACCTTGGAC TGAACCTTTG GATGACATNT AAATGTTNCT CCATCCTCAC AAA | GTGGCCCCGG | AGATGTTCTC | AACCCAGGGG | TGCCCTTCGT | |
| 20 | SEQ ID NO:4679 SEQUENCE LENGTH:234 SEQUENCE TYPE:nucleic TOPOLOGY:linear CLONE:HUMGS05552 | acid | | | | |
| 25 | SEQUENCE DESCRIPTION: GATCCCAGTG ACGTGGAAGT AGATAGCTGA CTGNTTTCT NTCCTNTTCC ATTATTCCAA CTACTGGTTG ATATAATTGA | GCTCAGTCAC AACGTTTAAC | AATTTTACTT GTTCAAAGCA | GNAAGCAAGN GGGTCTCATT | ATTGTCCTAG AAAANCCCAA | |
| 30 | | | | | | |
| 35 | SEQ ID NO:4680 SEQUENCE LENGTH:316 SEQUENCE TYPE:nucleic TOPOLOGY:linear CLONE:HUMGS05553 SEQUENCE DESCRIPTION: | acid | | | | |
| 40 | GATCAGAATC TTCAAGAATC GAATGAATTA TATTTTCAGA TCTGAAAAGA AATCTGAAAC CTTAATATTT NCTANCAGGA ATTNGGTTGA ATTTGTNCAG TTACCTNATA NCANAN | AGTAAAGCAA AAGTTATTGT NAAGTCATCC | AGAAGCTATA AATGATAAAA CTATTTCCTT | ACATGTTATG ATAATGCACA GTNTTACTGC | TACAGTACAC GGCATGGNTA ACTTANTATT | 180 240 |
| 45 | SEQ ID NO:4681 SEQUENCE LENGTH:304 SEQUENCE TYPE:nucleic TOPOLOGY:linear | acid | | | | |
| 50 | CLONE: HUMGS05555 SEQUENCE DESCRIPTION: | | | | | |

| 5 | GATCATCCTG GAATCCGACT CCCTCTCATT TTACAGCTGC TTTGAAATTT TTATTGAGCT AATGCATAGG TTGAACAAGA ACCCATATAG NGAACCTAGT CGAN | AAAAACGGAG CTAATTGTGT CAGAAAGGCC | GCCTGTTAAT GTGAAGTATT CAGATGGCAG | TCAGTCATTT ATGGAATGCT AAGTTCAAGA | TATGAAATCC TCTGTACTGG NCTTTCACCA | 120 180 240 |
|------|---|--|--|--|--|-------------------|
| 10 | SEQ ID NO:4682 SEQUENCE LENGTH:287 SEQUENCE TYPE:nucleic TOPOLOGY:linear CLONE:HUMGS05556 | acid | | · | | |
| 15 | SEQUENCE DESCRIPTION: GATCAAATCG GAGTACTTAG AGAACATTTA AAAATCCTAT AACCATAGTC ACCCTACTGT | TTTCTAGCTA | TTTTGTAATA | TACACTACCT | TACTGTTGCG | 120 |
| 20 | ACTTNGTACC CATTGNCCCC ACCACTGTTC TGTTCCCTAT | | | | GNCTCTGGTA | 240 287 |
| 25 . | SEQ ID NO:4683 SEQUENCE LENGTH:298 SEQUENCE TYPE:nucleic TOPOLOGY:linear CLONE:HUMGS05558 | acid | · | | | |
| 30 | SEQUENCE DESCRIPTION: GATCTTTTGA AGATTGCTGG ATTAAAGGCT TTTCTTAATA TTCTACATCA AATTTTTCCA CCTGTTCATA CCTCAAATTG CGGATTCTGT TGTGGTTTGA | TGTTTTAACC TTTTGGTTAT ATTCATACCT | AAAGATGTGG TTTCATAATC CAGTTTAATT | AGCAATCCAA NGGTATTGCA CAGAGAGGTC | GCCACATATC TTTTGCCTTC AGTTAAGTGA | 120 180 |
| 35 | SEQ ID NO:4684 SEQUENCE LENGTH:297 | | | | | |
| 40 | SEQUENCE TYPE:nucleic TOPOLOGY:linear CLONE:HUMGS05559 SEQUENCE DESCRIPTION: | | | | | |
| 45 | GATCCATCTT CCTTACACTC CAGTGTTCTC TAGCACATAT TTCATGACCA GCCTNACCNG TACCCTTCGG CATGCCAACC GTGCCTCCCN TTGTTTTGCT | AGGGTAAAGT CACCTCTAGC TGCTTATGGT | CAAAGCTCAT TACATCTCCT TACGGGGCAC | TAGCAGGGCA ACTGNGNNCA AGCTTGCTGT | TAGGAGGCCC CCTCCACATT TTTGGNTNNT | 120 180 |
| 50 | SEQ ID NO:4685 SEQUENCE LENGTH:120 | • | | | | |

| 5 | SEQUENCE TYPE:nucleic TOPOLOGY:linear CLONE:HUMGS05560 SEQUENCE DESCRIPTION: GATCAGATTC ACTGTTTCAT ACAACAAAAT GTGATTGGTC | CATATTTATT | | | • | |
|----|---|------------|------------|------------|------------|-----------|
| 10 | SEQ ID NO:4686 SEQUENCE LENGTH:53 SEQUENCE TYPE:nucleic TOPOLOGY:linear | acid | | | | |
| 15 | CLONE:HUMGS05561 SEQUENCE DESCRIPTION: GATCAGAGGA GTTCAGGGAG | ACATACATAA | AAATGTTAAT | CACGGTTTTC | AAA | 53 |
| 20 | SEQ ID NO:4687 SEQUENCE LENGTH:363 SEQUENCE TYPE:nucleic TOPOLOGY:linear CLONE:HUMGS05562 | acid | | | | |
| 25 | SEQUENCE DESCRIPTION: GATCGCCAAG TGCAGGCACG AAGATGACAC ACCCAATTTA TGTGCCTTTA TTATCAGAAC | GGTAATGCTG | CACTTCTNGT | TATAATTGGT | TATTGGAAAA | |
| 30 | TATCTGACTT AGATACTAAA TAAAAGCATG AAACTGGTGA TCTGTGAAAG GGGTCTTACC NGN | TTTAATTAGA | TGTTTTCTAT | AAAATGCACC | TTGTTACATT | 300 |
| 35 | SEQ ID NO:4688 SEQUENCE LENGTH:109 SEQUENCE TYPE:nucleic TOPOLOGY:linear | acid | | | | |
| 40 | CLONE:HUMGS05563 SEQUENCE DESCRIPTION: GATCCACGTG TACTGGCACC TGTCTTTATC CCTGTGGGCA | | | | CTCTATACAA | 60 109 |
| 45 | SEQ ID NO:4689 SEQUENCE LENGTH:369 SEQUENCE TYPE:nucleic TOPOLOGY:linear | acid | • | | | |
| 50 | CLONE:HUMGS05564 SEQUENCE DESCRIPTION: GATCAGAAAG CATTCAGTCC | AGTCAGAATT | CAAGGTGGGA | AAAGTAGGTG | TATTTCTGAN | 60 |

| | CCATTTGGGA AGGAAAATCA | TTTTTCTGAA | CANCACTACC | TGCATTTCTG | TTTCTGCAGA | 120 |
|----|--|---------------|--|-------------------------------|----------------|-----|
| | CAATCAAAAA ACAAACCANT | AAAANTAAGT | AAGTGAANGA | AAGGCCANTT | AGCATTATTC | 180 |
| | ATTTGCCTTA GGTTTACAGG | GTCACAGATT | CATTAGCTTA | ATTACATCCT | CATTTTGGNT | 240 |
| 5 | GCCAAAGAAT GGAGCAAGAG | CANTCAGTAT | TGCTANCTGG | CTCTTGCTTC | TTCTTCCTGG | 300 |
| | GTTTGTTTTG GTTTTNCAGA | GAAACAGGGA | AGNGAGGGCA | TTNGCNNAGT | ATAATTGGTN | 360 |
| | TATAGGAGN | | | | | 369 |
| 10 | SEQ ID NO:4690 | | | | | |
| | SEQUENCE LENGTH: 70 | | | | | |
| | SEQUENCE TYPE:nucleic | acid | | | | |
| | TOPOLOGY:linear | | | | | |
| | CLONE: HUMGS05565 | | | | | |
| 15 | SEQUENCE DESCRIPTION: | | | | | |
| | GATCATAAAT GTACTTGCTG | AATTCAATCA | TTTTTAACAA | GCCAATAAAG | TTTGATAATT | |
| • | CATCTCCAAA | | | | | 70 |
| 20 | SEQ ID NO:4691 | | | | | |
| | SEQUENCE LENGTH: 293 | | | | | |
| | SEQUENCE TYPE:nucleic | acid | | | | |
| | TOPOLOGY: linear | | | | | |
| 25 | CLONE: HUMGS05566 | | | | | |
| | SEQUENCE DESCRIPTION: | NO CO COMO CO | ###################################### | 0001001000 | 0100111010 | - |
| | GATCCTCAAG GCCTTGCTCT | | | | | |
| | TACCGGCTGC GTGGCAGGTC | | | | | |
| | TGTTCTCAGA GGTCCTTAGG GACAAATCAN GCTGGGTGTG | | | | | |
| 30 | GCGATTGTGA ATTTGNANTN | | | | | 293 |
| | GCGAILGIGA AIIIGNANIN | IAAAIUUAAA | ACCUGGIIII | INCCOONGII | IIN | 433 |
| | SEQ ID NO:4692 | | | | | |
| 35 | SEQUENCE LENGTH: 251 | | | | | |
| | SEQUENCE TYPE:nucleic | acid | | | | |
| | TOPOLOGY: linear | | | | | |
| | CLONE: HUMGS05567 | | | | | |
| 40 | SEQUENCE DESCRIPTION: | @+ C@C+@V+C | 000001000 | ***************************** | ************** | 60 |
| 40 | GATCAAACTC TTCATTGAAG | | | | | 60 |
| | CACATTNCGT GGTGAGGTCC | | | | | |
| | TGTTCACAAG TGAAGGCCTG GACCGGGAAG TTCTATTCAC | | | | | |
| | | IAACIIIIII | GCAIGGAACA | AGAAAAICIA | IUNUUNINIC | 251 |
| 45 | ACCAAACTAA A | | | | | 231 |
| | SEQ ID NO:4693 | | | | | |
| | SEQUENCE LENGTH: 97 | | | | • | |
| 50 | SEQUENCE TYPE:nucleic | acid | | | | |
| | TOPOLOGY: linear | | | | | |
| | CLONE: HUMGS05568 | | | | | |

| 5 | SEQUENCE DESCRIPTION GATCCATCTT GCTTTTGCC CTTCTCAATA AATATTCAC | T TATATAAAGA | | GGAAGTNTGG | AAAACTGTGG | 60 97 |
|----|---|--|--------------------------|--------------------------|--------------------------|------------------|
| 10 | SEQ ID NO:4694 SEQUENCE LENGTH:106 SEQUENCE TYPE:nuclei TOPOLOGY:linear CLONE:HUMGSO5570 | | | | | |
| 15 | SEQUENCE DESCRIPTION GATCTCACAA AGTACAAAA GTTTGGTTAC TGTCAAGAA | C GAATGCCTTT | | | CACTCACTGT | 60 106 |
| 20 | SEQ ID NO:4695 SEQUENCE LENGTH:106 SEQUENCE TYPE:nuclei TOPOLOGY:linear CLONE:HUMGS05571 | c acid | | | | |
| 25 | SEQUENCE DESCRIPTION GATCAGTNGA TATTAAGAT GTATCCCAGA ACATGACAA | G AGATTACAAA | | | ATTACTTTTG | 60 106 |
| 30 | SEQ ID NO:4696 SEQUENCE LENGTH:149 SEQUENCE TYPE:nuclei TOPOLOGY:linear CLONE:HUMGS05572 SEQUENCE DESCRIPTION | | | | | |
| 35 | GATCCATAAA ATTTTATTA CACCAAATTT TTAAACCAA TTTTATAAGT AATANANTA | A TCAAGATATC T TTTATGTTTT | | | | 60 120 149 |
| 40 | SEQ ID NO:4697 SEQUENCE LENGTH:356 SEQUENCE TYPE:nuclei TOPOLOGY:linear CLONE:HUMGSO5573 | | | | | |
| 45 | SEQUENCE DESCRIPTION GATCGCGACG GCTGGTTTC ATATTATCTT GTAAAACGT ATATATGAAA TTACATCCA TTTTGAAAAA TNCCATCCA | C ATCGCCAGCT G AAGACTACCT G AGGATTTTCC | GTATGCTGTG TGANGAAGAT | AGGGACCGTG AAGAAAACAT | AAATGTTTGG ATGGTGAAAT | 120 180 |
| 50 | TACCTGCTGT TTCTGAATT | T GNTGGGGCAT | GTTTCTTATG | GCANTTGGAG | GCTNATTGNT | |

| 5 | SEQ ID NO:4698 SEQUENCE LENGTH:190 SEQUENCE TYPE:nucleic a TOPOLOGY:linear CLONE:HUMGS05574 SEQUENCE DESCRIPTION: | acid | | | | |
|----|--|--------------------------|--------------------------|--------------------------|--------------------------|------------|
| 10 | GATCCACCTG CTTTGGCCTC C TATCAACTTA GTTTGTCAGT C TATGTGCTAC ATAAATTTCA G TTACAGCAAA | CTATTAATAC | TAAATTTAGC | TCCTTCAAAG | CAGTTGGAAC | 120 |
| 15 | SEQ ID NO:4699 SEQUENCE LENGTH:81 SEQUENCE TYPE:nucleic a TOPOLOGY:linear | acid | | | | |
| 20 | CLONE: HUMGS05575 SEQUENCE DESCRIPTION: GATCCGNTCC CAGACGGCCT TO ATGGGCCATC CTTTCCTGAA A | | GCATTTCCCC | GGAGAAAAG | GGGTTAATAA | 60 81 |
| 25 | SEQ ID NO:4700 SEQUENCE LENGTH:89 SEQUENCE TYPE:nucleic at TOPOLOGY:linear | acid | | | | |
| 30 | CLONE:HUMGS05576 SEQUENCE DESCRIPTION: GATCACTGTG GGGTCAAGAA TO AATTCAAACC TTGGAATTAA A | | GTTTTATTCA | TCATTCTTGA | NGGAAGAAAT | 60 89 |
| 35 | SEQ ID NO:4701 SEQUENCE LENGTH:311 SEQUENCE TYPE:nucleic action of the company of | acid | | | | |
| 40 | CLONE: HUMGS05577 SEQUENCE DESCRIPTION: GATCTTGGCA AGAAACCCTA A | | | | | |
| 45 | GACTTCTAAT AACATTGATG TO GCTCTCGTAA CCAGGTTCTA CA TTCCCCTACC CCACCCNCCG GC CCTAAACATG TAACCATGCC CO TGNCCTGCAA A | CAGGGAGGCT GCATAANGNC | GCNNNNACTC ANACCAATCA | CATGTTACTT ACCACGACAA | CTGCTTCGCT AGGNAGTTGA | 180 240 |
| 50 | SEQ ID NO:4702 SEQUENCE LENGTH:94 SEQUENCE TYPE:pucleic a | ucid | | | | |

| | TOPOLOGY: linear CLONE: HUMGS05578 | | | | | |
|----------|---|--------------------------|--------------------------|--------------------------|--------------------------|----------|
| 5 | SEQUENCE DESCRIPTION: GATCTCTCTT GCACGGGCCT GTCATATGTT TTTGTAAAAA | | | TTGGGCAGTA | TGTTCATGTG | |
| 10 | SEQ ID NO:4703 SEQUENCE LENGTH:248 SEQUENCE TYPE:nucleic TOPOLOGY:linear | | | | | 94 |
| 15 20 | CLONE:HUMGS05579 SEQUENCE DESCRIPTION: GATCCGAATC CGACTGTGGG GTTATCAAGG CCCCTCCGCC GGGACCCCAT GGGGACAGGC CAAGAGTCTT GGAGGTTTGC AATGNAAA | CCCGAACCCT AGAGCTGGTC | GGGGAGCTGG TCCTCCCAGC | ACCAGGAGGT AGACGGAGCC | GGAGGCTCAG AGGACGGGCA | 180 |
| 25 | SEQ ID NO:4704 SEQUENCE LENGTH:66 SEQUENCE TYPE:nucleic TOPOLOGY:linear CLONE:HUMGS05580 SEQUENCE DESCRIPTION: | acid | | | | |
| 30 | GATCAGCAAA GTGAGACAAA CAGAAA | AGAAGATACT | TCCCCAAAGA | AGAAAAAGAA | AAAATTGAGG | 60 66 |
| 35 | SEQ ID NO:4705 SEQUENCE LENGTH:65 SEQUENCE TYPE:nucleic TOPOLOGY:linear CLONE:HUMGSO5581 SEQUENCE DESCRIPTION: | | | | | |
| 40 | GATCGGGTCT CGGAAGGGAA GNAAA | GTAGCCATCA | CACCATTAAA | AAGCCTGTGG | ACCTTTAAAG | 60 65 |
| 45 | SEQ ID NO:4706 SEQUENCE LENGTH:308 SEQUENCE TYPE:nucleic TOPOLOGY:linear CLONE:HUMGS05582 SEQUENCE DESCRIPTION: | acid | | | | |
| 50 | GATCTTCTTA GGACATCTTT AATGCTTTTT CATCAATAGC TTTAAGTGTC ATTGATGTAC | AGTCANCATT | TTATCCTTTC | TTTTTATATT | CATAATGTTA | 120 |

| | GTACATGCAT GAAAGCATTT | | | | | |
|----|------------------------|------------|------------|------------|------------|-----|
| | TNCCAAATNA CTTAAGANGT | TTAATGTCAG | TNAAAGATTT | TNTTACCCTC | NTTTTGGGAA | |
| 5 | CATCAATN | | | | | 308 |
| 3 | | | | | | |
| | SEQ ID NO:4707 | | | | | |
| | SEQUENCE LENGTH: 323 | | | | | |
| | SEQUENCE TYPE:nucleic | acid | | | | |
| 10 | TOPOLOGY: linear | | | | | |
| | CLONE: HUMGS05583 | | | | | |
| | SEQUENCE DESCRIPTION: | | | | | |
| | GATCCGGAAG ACCACGGCCA | | | | | |
| 15 | GGGCGCGGAT GTGCTGGACG | | | | | |
| 15 | GCTTGCAGTG GTGAGAGAGC | | | | | |
| | CCAGCTGGTG CCCCAGCCTG | | | | | |
| | CTGCCTGGTG AGGATGTCTT | GTTTCCTGAG | GGTAGGCCGG | TTGTGGAAAA | GCCTCANNAC | 300 |
| | NAGTGNTGCC TNNAGGCTGN | GAN | | | | 323 |
| 20 | | | | | | |
| | SEQ ID NO:4708 | | | | | |
| | SEQUENCE LENGTH: 302 | | | | | |
| | SEQUENCE TYPE: nucleic | acid | | | | |
| 25 | TOPOLOGY:linear | | | | | |
| 20 | CLONE: HUMGS05585 | | | | | |
| | SEQUENCE DESCRIPTION: | | | | | |
| | GATCTTCCTT TGGAACCAGG | CACATTTGGC | CCCTTCTCAG | TGACTGCACT | GTGGAACTCT | 60 |
| | TCTTAAGAAA ATATTGAAAA | CAGCTTAATG | CTTTCATATA | GTGACCGACA | TTTAGTTGAA | 120 |
| 30 | AACTACTGCT GCATAGCAAA | TATTGTGACT | CTTCATGTGT | CCACAGGAGC | TCTTGTGTGG | 180 |
| | GTTTAAAGCT ATGAAGTGTA | TTCACATTGT | GAAGTTTTAA | TTATCTTTAT | TGAAATTAAT | 240 |
| | TGTGTAAAAA TGGTATGTGC | TCTATTAGGT | ATTCAGTTTG | TATGTGAATT | CTATAAAGAA | 300 |
| | TN | | | | | 302 |
| 35 | | | | | | |
| | SEQ ID NO:4709 | | | | | |
| | SEQUENCE LENGTH: 302 | | | | | |
| | SEQUENCE TYPE: nucleic | acid | | | | |
| | TOPOLOGY:linear | | | | | |
| 40 | CLONE: HUMGS05586 | | | | | |
| | SEQUENCE DESCRIPTION: | | | | | |
| | GATCCCTCTC AGCTACTGGG | AGCTGCTTTG | TGCCTTGGAA | GCCTCAAGCT | GAAATGGATG | 60 |
| | TCAGCCTCAA GTTTAACTCC | AAGAGGGTTC | ACCTTGTTTC | TTTGAACAAA | ATGTGCTGCC | 120 |
| 45 | TGTTGCTTCC CTTTGCCAGG | AGTGGTGTTC | CCTTTTCCAC | AGGTCTGGAC | CACAGTGTCT | 180 |
| | CTAGCTCCCG CTCCTGGATA | CTTGGTTACT | GTGTGTTTCG | GGAAAAAAGG | ATNCACAACA | 240 |
| | TGAATATNCA CTAAGCTGTA | ACAGGGGCCT | GCTGCANCTA | TAGTATTTCC | TGAAAAAGTA | 300 |
| | TN | | | | | 302 |
| 50 | | | | | | |
| 50 | SEQ ID NO:4710 | | | | | |
| | SEQUENCE LENGTH: 161 | | | | | |

| 5 | SEQUENCE TYPE:nucleic TOPOLOGY:linear CLONE:HUMGS05587 SEQUENCE DESCRIPTION: GATCTTGCCT CTTTCCTCCT | | ACCACACATT | CTCTTAACTT | ATCTCTCTTC | 60 |
|----|--|------------|------------|------------|------------|------------|
| | TTAAATNAGC TTAATGTCTT TGCAAATNAA GGAATGCAAT | TGTGTTTTGT | CCAAAACTGT | ATTGNNNNAA | | |
| 10 | SEQ ID NO:4711 SEQUENCE LENGTH:120 SEQUENCE TYPE:nucleic TOPOLOGY:linear | acid | | | | |
| 15 | CLONE: HUMGS05588 SEQUENCE DESCRIPTION: | | | | | |
| | GATCAGAGCG TGGGAGGAGG TGAGGTCTTT CTGGTCCCAG | | | | | |
| 20 | | | | | | |
| | SEQ ID NO:4712 SEQUENCE LENGTH:297 SEQUENCE TYPE:nucleic TOPOLOGY:linear | acid | | | | |
| 25 | CLONE: HUMGS05589 SEQUENCE DESCRIPTION: GATCTGGCAG TACCCAGCCC | TTGTGTGTGT | GCGTTANTCA | GCACCTGCCC | ACACTGCGAG | 60 |
| | CCCCGTAGG ATGTGCCTTG | | | | | 120 |
| 30 | AGTATGTAGT GGGCATCTGT | TGAATGAATG | CTTTTCCCAG | TAGCAGTGTA | TTCATACAAT | 180 |
| | ATTAATATAA TTGTCCCCTG TGAGACCCAG GTGTTCTTCC | | | | | 240 297 |
| 35 | SEQ ID NO:4713 SEQUENCE LENGTH:67 SEQUENCE TYPE:nucleic | | | | | |
| | TOPOLOGY:linear CLONE:HUMGS05590 | aciu | | | | |
| 40 | SEQUENCE DESCRIPTION: GATCTCTGCG CTAGGTCGTT AATGAAA | TACCGCTATT | TATTTTTATG | GGGAAAATAA | AACTCTCAAA | 60 67 |
| 45 | SEQ ID NO:4714 SEQUENCE LENGTH:50 | | | | | |
| | SEQUENCE TYPE:nucleic TOPOLOGY:linear | acid | | | | |
| 50 | CLONE: HUMGS05591 SEQUENCE DESCRIPTION: GATCACTAGA TGATTCTAAC | ATCGAAATAA | ACCTCTTTTT | ATATGGCAAA | | 50 |

| 5 | SEQ ID NO:4715 SEQUENCE LENGTH:233 SEQUENCE TYPE:nucleic TOPOLOGY:linear CLONE:HUMGS05593 | acid | | | | |
|----|---|--------------------------|--------------------------|--------------------------|--------------------------|----------|
| 10 | SEQUENCE DESCRIPTION: GATCTGGTGC GTGTGGCCCT AGTGTGTGTG CAATGTTCCG ATTTTTNTTT TCCTCCTTNT CCCAGTTTGT TTTAAAAATA | TTCATCTGAG CAATGTGATG | GAGTCCAAAA GAATGAACAA | TATCGAGTGA AAAGGAAAAA | ATTCAAAAAC ATTCAAAAAA | 120 |
| 15 | SEQ ID NO:4716 SEQUENCE LENGTH:282 SEQUENCE TYPE:nucleic TOPOLOGY:linear CLONE:HUMGS05595 | acid | | | | |
| 20 | SEQUENCE DESCRIPTION: GATCTTGCCT TGAGGAAGAC TAATGCAGCC TCGGGACAGG | GCTGAGGCCT | GCGGGGGAAG | ACCTATACCC | CACGACTGGG | 120 |
| 25 | CCTGGNTTCA CCTCACCCTA GCCTGCTGGG NNGTGGCTGT GGGTNCAGAG CCCTNCCCCA | TTTNATGNCC | CAGCCCCGNN | AAGTTGGGGA | | |
| 30 | SEQ ID NO:4717 SEQUENCE LENGTH:80 SEQUENCE TYPE:nucleic TOPOLOGY:linear CLONE:HUMGS05598 SEQUENCE DESCRIPTION: | acid | | | | |
| 35 | GATCTAGGAC TAATTCAAGG AAAACTCTAT CTTCTTTAAA | GTCTAGATTT | ACCTCCAAAC | TTTGTTTATC | TACAAAAAAT | 60 80 |
| 40 | SEQ ID NO:4718 SEQUENCE LENGTH:204 SEQUENCE TYPE:nucleic TOPOLOGY:linear CLONE:HUMGS05599 SEQUENCE DESCRIPTION: | acid | | | | |
| 45 | GATCCTTCCC CTCTCAGACA TCACAGAATC CCATGAAAGG GTTGTGTCTT TGTGTCTCTG AAAGCTTTGG TGTATAGGCT | GAATGGGGCA TCTCTGTGAC | GGAGCCAGGG | GTGTTTTTNC | CCAGTGCAGG | 120 |
| 50 | SEO ID NO:4719 | | | | | • |

| | SEQUENCE LENGTH:83 SEQUENCE TYPE:nucleic TOPOLOGY:linear | acid | | | | |
|----|---|--------------|------------|------------|------------|----------|
| 5 | CLONE: HUMGS05600 SEQUENCE DESCRIPTION: GATCAGTTTG TTTCTTCTG AANTAAATCT ATTCTATGAT | | AATAAGCGTC | GCACAGACAT | GGTTTCAGGT | 60 83 |
| 10 | | | | | | |
| | SEQ ID NO:4720 | | | | | |
| | SEQUENCE LENGTH: 289 | | | | | |
| | SEQUENCE TYPE:nucleic | acid | | | | |
| 15 | TOPOLOGY: linear | | | | | |
| 15 | CLONE: HUNGS05601 | | | | | |
| | SEQUENCE DESCRIPTION: GATCTCTGGA TTGTGTTATG | TC A CTCTTCC | TACCTTACCA | ACTAGATTTC | CCAGAATCCA | 60 |
| | TTCCATTTGT NATTCCATGA | | | | | |
| | TAAGTTAAGA AGGCATTAGT | | | | | |
| 20 | TACAGGCTGT ATGGACACTT | | | | | |
| | AGTGTATCCT CAAAACGACT | | | | | 289 |
| | | | | | | |
| | SEQ ID NO:4721 | | | | | |
| 25 | SEQUENCE LENGTH: 235 | | | | | |
| | SEQUENCE TYPE:nucleic | acid | | | | |
| | TOPOLOGY:linear | | | | | |
| | CLONE: HUNGS05602 | | | | | |
| 30 | SEQUENCE DESCRIPTION: | | | | | |
| | GATCAAGTCT TACATGCCCA | | | | | 60 |
| | CAAGTGGCCC TGAGACACGT | | | | | |
| | GCTTTGGTGC TTTNGCCTCT TNTTNCTNAT TCAGGGTNGA | | | | | 235 |
| 35 | INTINCINAL ICAGGGINGA | IGCIIIAAGA | AAINCIUNCI | CIIGIGNANG | CAUAN | 233 |
| | SEQ ID NO:4722 | | | | | |
| | SEQUENCE LENGTH: 276 | | | | | |
| | SEQUENCE TYPE: nucleic | acid | | | | |
| 40 | TOPOLOGY: linear | | | | | |
| | CLONE: HUMGS05603 | | | | | |
| | SEQUENCE DESCRIPTION: | | | | | |
| | GATCGTCAGC ATCATCGGAG | | | | | 60 |
| 45 | CCTCATCTGT GCAATGGGTG | | | | | |
| | CTGGGGAGTG GTCTCTGTGC | | | | | |
| | GTCTGGGAGA TGTTCTGATG | | | AAGGGGCCCT | CCGGGGGCTG | |
| | ACCCTACGTG GCTGCTGTAT | GCAGNNGGGA | GANCAN | | | 276 |
| 50 | CEO ID NO. 4722 | | | | | |
| | SEQ ID NO:4723 SEQUENCE LENGTH:278 | | | | | • |
| | PRESCUOE PERSTU-CIO | | | | | |

| | SEQUENCE TYPE:nucleic TOPOLOGY:linear CLONE:HUMGS05604 | acid | | | | |
|----|--|------------|------------|------------|-------------|-----|
| 5 | SEQUENCE DESCRIPTION: | | | | | |
| | GATCAAGGTC ATAGAAAGTG | AAGATTATGG | CCAACAGTTA | GAAATCGTAT | GTCTGATTGA | 60 |
| | CCCGGGCTGC TTCCGAGAAA | TTGATGAGCT | AATAAAAAG | GAAACTAAAG | GCAAAGGTTC | 120 |
| | TTTGGAAGTA CTCAATCTGA | | | | | |
| 10 | ATCAATCTCT TCACCTCTAA | | | TCCGACGGCA | CTGTTTCATG | |
| | TCTGTGGTCT GCCAAATACT | TGCTTAANCT | ATTTGGAN | | | 278 |
| | SEQ ID NO:4724 | | | | | |
| | SEQUENCE LENGTH: 280 | | | | | |
| 15 | SEQUENCE TYPE:nucleic | acid | | | | |
| | TOPOLOGY: linear | | | | | |
| • | CLONE: HUMGS05606 | | | | | |
| | SEQUENCE DESCRIPTION: | | | | | |
| 20 | GATCTGGAAT GCNACCGGAG | CACTTGCTCT | GAGGAATCCC | AGGGTGACTC | TGTCGGGGAA | 60 |
| | GAATCCGGTC ACAGCCTCCC | CTCAGAGACA | GGCCTCANTT | CGAGGGCAGC | CCATTATCTG | 120 |
| | TCGCAGCATC TGCCATGTCC | CTNAGACTGC | GGGAGGCAGG | GNATGCATGG | GTGTCCCCAT | 180 |
| | CTGTCCCTGG TGAGAAGCAA | GGCTAGCTCT | GCCTTCCACA | TGCTTNTNAG | GATGCCAAGA | 240 |
| 25 | GGCCTAGGAA CCCAGNAACC | CCCTTGNGAG | GAGCTGTGNN | | | 280 |
| | CEO ID NO. 4705 | | | | | |
| | SEQ ID NO:4725 SEQUENCE LENGTH:253 | | | | | |
| | SEQUENCE TYPE:nucleic | | | | | |
| 30 | TOPOLOGY: linear | aciu | | | | |
| | CLONE: HUNGS05607 | | | | | |
| | SEQUENCE DESCRIPTION: | | | | | |
| | GATCTGCATT CACCTTAGGG | CTTAGCCTCT | NATTTTATGA | ATTTTCAGGC | TGTGATTNGT | 60 |
| | GTTGGATGGC TAAGNTCTAA | | | | | |
| 35 | AAGTTGAACA NGTAACACAN | TACAGAAAAT | GCTGATATGA | ATACTTAGTA | ATAATACAAA | 180 |
| | AGTTCCTGCT AAATTATATA | TGTGTATCAC | TGCCTGNCNN | GANACCCCAC | TTNNCTTTTC | 240 |
| | TAATCCAGCN CAN | | | | | 253 |
| 40 | 000 ID NO 4000 | | | | | |
| 40 | SEQ ID NO:4726 SEQUENCE LENGTH:301 | | | | | |
| | SEQUENCE TYPE: nucleic | | | | | |
| | TOPOLOGY: linear | aciu | | | | |
| | CLONE: HUNGS05608 | | | | | |
| 45 | SEQUENCE DESCRIPTION: | | | | | |
| | GATCCAGATA GCCTAGGGTG | AGGGTGACAG | AGGGACAGTG | GGCTATGCCA | CTAGGCCCCTG | 60 |
| | GTCTGGCTTT GGAAAGACCT | | | | | |
| | CTGAGGCCAG AGGAAGGGAG | | | | | |
| 50 | AGCCTGGACA CAGTCAGGGC | | | | | |
| | ATGGTGCTGC ACCCCTGGGT | | | | | |

| | N | | | | | 301 |
|------|---|--------------------------|--------------------------|--------------------------|--------------------------|----------|
| 5 | SEQ ID NO:4727 SEQUENCE LENGTH:295 SEQUENCE TYPE:nucleic TOPOLOGY:linear | acid | | | | |
| 10 | CLONE:HUMGS05610 SEQUENCE DESCRIPTION: GATCATAAAA CAATAAAAGT TTCAAATCCA GGAGACAGTC AATTTNATT TTCAGTCTGT NCTAGAATAT TGGCTAANCA | CAAAAATGGT GTTTTGGGAA | TATTGAGCAN AACAGCATTT | TGGCCACATA CATTGCATAG | TTGGAATAAA GTGGATAAGT | 180 |
| 15 | TCTNGCTCCT GANGTATNAT | GGGGGGTTTT | CTAGCTCCCN | TATNGCNAAA | ANTTN | 295 |
| 20 | SEQ ID NO:4728 SEQUENCE LENGTH:99 SEQUENCE TYPE:nucleic TOPOLOGY:linear CLONE:HUMGSO5612 | acid | | | | |
| O.F. | SEQUENCE DESCRIPTION: GATCACTTGA GCCAGAGGTT ATGNGCAACA GAGCCGGACC | | | TTGTACCACT | GCTCTCCAGC | 60 99 |
| 30 | SEQ ID NO:4729 SEQUENCE LENGTH:329 SEQUENCE TYPE:nucleic TOPOLOGY:linear CLONE:HUMGSO5613 SEQUENCE DESCRIPTION: | acid | | | | |
| 35 | GATCCATTGT CGGGAGCTTG NAATTCCGTT TATGTCTACC GTTCAGATTA CATCCCTCCT | GTCCCCTCAA CTGTCCCAGG | GCACACCCTG CCCAGACTTC | GTGACCTGTG TCCAAGGACA | ACAAAGGAGT ACAGCAAGCC | 180 |
| | AGAAGTGCCA GTCAGAGGTT CAAGCAGACC TCTACTAAAC GANTCAAACG GCTCTATAAT | GNAAAGTAGA | | | | |
| 45 | SEQ ID NO:4730 SEQUENCE LENGTH:140 SEQUENCE TYPE:nucleic TOPOLOGY:linear CLONE:HUMGSO5614 SEQUENCE DESCRIPTION: | acid | | | | |
| 50 | GATCCTGCCC TTTCCTGGGT CTAGCTTCAA AGCCCAACAC AATGACATAA TTTTTTGAAA | | | | AACAANTNTA | |

| 5 | SEQ ID NO:4731 SEQUENCE LENGTH:190 SEQUENCE TYPE:nucleic TOPOLOGY:linear CLONE:HUMGS05615 SEQUENCE DESCRIPTION: | acid | | | | |
|------|---|--------------------------|--------------------------|-----------------------|--------------------------|-----|
| 10 | GATCCATAGG ACTACCGCAG ACAAGACTGC CAGGTGGTTG AGGAGCTTAC CCAAGCTGTG TTCCCTGAAA | GGTTCTGCCT | TTAGCCTGGA | CCAAAGGGAA | GTGAGGCCCA | 120 |
| 15 | SEQ ID NO:4732 SEQUENCE LENGTH:159 SEQUENCE TYPE:nucleic TOPOLOGY:linear CLONE:HUMGS05616 | acid | | | | |
| 20 | SEQUENCE DESCRIPTION: GATCCCAGCC AGGAAGGCTG AGGGAGGAGG TTCCGTCAGC CATCTCTGGC CTGCTAGATT | AGCTGGCAGT | AGCCCTCCTC | | | |
| 25 | SEQ ID NO:4733 SEQUENCE LENGTH:295 SEQUENCE TYPE:nucleic TOPOLOGY:linear | acid | | | | |
| 30 | CLONE: HUMGS05618 SEQUENCE DESCRIPTION: GATCACAGAC AAGCTGGGCC | TGCATTCCCT | TCGTCACCGT | AACTGGTACA | TTCAGGCCAN | 60 |
| 35 | CTGTGCCACC AGCGGGGACG AAACAAGAAG TGAAAGCCAG ACTGTNACCC TGCCCCAGTC GTATCATGTC CACATGCCCA | ACAGCCCTAA CTACCCCTTC | CAAAGCACCC CTCTCCATGC | CACCCACCCC AAGTNTGGCC | TGACATACCT AGGGCCCTGG | 180 |
| 40 | SEQ ID NO:4734 SEQUENCE LENGTH:295 SEQUENCE TYPE:nucleic TOPOLOGY:linear CLONE:HUMGS05619 | acid | | | | |
| 45 | SEQUENCE DESCRIPTION: GATCCACCCA CCTNGGCCTC CCGAAAAGCT TTTGAGGGGC GGGTGCATTT CTAGGACTTT | TGACTTCAAT | CCATGTAGGA | AAGTAAAATG | GAAGGAAATT | 120 |
| 50 . | TTTTCAGGAN TNCATTTGGA TGCAGGNGGN CATTGGTATT | AATTCAAANC | ANTTGGCAAN | CTTNGTATTA | ATGTGTTAGG | |

| 5 | SEQ ID NO:4735 SEQUENCE LENGTH:259 SEQUENCE TYPE:nucleic TOPOLOGY:linear CLONE:HUMGS05621 SEQUENCE DESCRIPTION: GATCTCAGCA ACAGCTGGGT | AATAAGACTA | | | | 60 |
|----|---|------------|------------|------------|------------|------------------|
| 10 | TCATCTGATT TTNCCTCCCT CATTTGTNAT TCAAAGCGGA ATTTTNTGGT GTATTTTTGT TTGANATTTT CTGACAGGN | ATAACANGTT | GTCCCTAGCA | NNNCCGCTGA | GCGCTTTATA | 180 |
| 20 | SEQ ID NO:4736 SEQUENCE LENGTH:232 SEQUENCE TYPE:nucleic TOPOLOGY:linear CLONE:HUMGS05622 | acid | | | | |
| | SEQUENCE DESCRIPTION: GATCACTGCA TGTTATGATG TNTCCCAGTA TTTGAACCTA GTNTTTTNCC TTACCTTTTG | ATTTAAAGAA | AAAGACGTTT | CCAAGTTGTA | TAAATTAATT | |
| 25 | TNCATAGGTT ATATNTGGTA SEQ ID NO:4737 SEQUENCE LENGTH:138 | | | | | 232 |
| 30 | SEQUENCE TYPE:nucleic TOPOLOGY:linear CLONE:HUMGS05623 SEQUENCE DESCRIPTION: | acid | | | | |
| 35 | GATCTGTAAG TTTATTTGCT TCCATCACTG AGGAAACTGC CGGAGCTGGA AAAATAAA SEQ ID NO:4738 | | | | | 60 120 138 |
| 40 | SEQUENCE LENGTH:135 SEQUENCE TYPE:nucleic TOPOLOGY:linear CLONE:HUMGS05624 | acid | | | | |
| 45 | SEQUENCE DESCRIPTION: GATCCAACTG GACAACGTGT CACTCCCTAG GGCGGGGCCT TAGCATAAAT GGAAA | | | | | 60 120 135 |
| 50 | SEQ ID NO:4739 | | | • | | - |

| | SEQUENCE LENGTH:64 SEQUENCE TYPE:nucleic TOPOLOGY:linear | acid | | | | |
|----|--|----------------|-------------|------------|------------|-----|
| 5 | CLONE:HUMGS05625 SEQUENCE DESCRIPTION: GATCGATGTT AAACGTCACA | GC A GT A CTTT | GCTCAATAAA | GGTCATATTG | GAAACATAGT | 60 |
| | CAAA | dCAUTACTTT | detenninan | Udicalaliu | UMMAÇATAGI | 64 |
| 10 | | | | | | |
| | SEQ ID NO:4740 | | | | | |
| | SEQUENCE LENGTH: 117 | • • | | | | |
| | SEQUENCE TYPE:nucleic | acid | | | | |
| 15 | TOPOLOGY: linear | | | | | |
| | CLONE: HUMGS05627 SEQUENCE DESCRIPTION: | | | | | |
| | GATCTGTGGT AGGGTATTGA | CCCATCACCC | AGAAAAACGA | CCTAATTCAN | CTACCACTNC | 60 |
| | CAACGGCTCC CACCCTCCCT | | | | | 117 |
| 20 | CAMOUNDIOC CACCOTOCOT | uuunomiuu | WI I'M I'MM | ATTUMORTOR | OMUMM | 111 |
| | SEQ ID NO:4741 | | | | | |
| • | SEQUENCE LENGTH: 244 | | | | | |
| | SEQUENCE TYPE:nucleic | acid | | | | |
| • | TOPOLOGY:linear | | | | | |
| 25 | CLONE: HUMGS05628 | | | | | |
| | SEQUENCE DESCRIPTION: | | • | | | |
| | GATCAGAAGG GCTGCGTGTA | GCACCCTTAT | GGTCTTGCAG | AACACACCAA | GAAACCCGAC | 60 |
| • | GGCTTCCATA TTTNCTGACC | CTACAAACAG | GTGCCTAATA | CTGATGTGGA | GAAAGCTCAA | 120 |
| 30 | GAGGGAATCA TCTGGCCTGA | | | | | |
| | CAACTCGCTC CCCTTCCCAT | GTATCAGTGA | AAACCATTAT | GCAAATAAAG | AGCTGGGCCC | |
| | CAAA | | | | | 244 |
| 35 | SEQ ID NO:4742 | | | | | |
| 30 | SEQUENCE LENGTH: 209 | | | | | |
| | SEQUENCE TYPE:nucleic | acid | | | | |
| | TOPOLOGY: linear | | | | | |
| | CLONE: HUMGS05629 | | | | | |
| 40 | SEQUENCE DESCRIPTION: | | | | | |
| | GATCTTTTTT CCTCCTTCTG | | - | | | |
| | CAATCAGATT CAAGTTGGTT | | | • | | |
| | AACCTTTAAA GGGATTGTNT | | ATTCACTTAG | AAATTTTATT | TNCTTATAAC | |
| 45 | TTAAGTGCAA TNGAANGNGT | TTTTNCAAA | | | | 209 |
| | SEQ ID NO:4743 | | | | | |
| | SEQUENCE LENGTH: 265 | | | | | |
| 50 | SEQUENCE TYPE:nucleic | acid | | | | |
| | TOPOLOGY: linear | | | • | | |
| | CLONE: HUNGS05630 | | | | | |

| | SEQUENCE DESCRIPTION: | | | | | |
|----|------------------------|------------|--------------------|------------|------------|-----|
| | GATCATATAC TGTATATATA | AAANNNTTGA | GATGGTAGAA | ACATGTATGA | NTGTACTAAG | 60 |
| | TAGTATTCCA CTGTACTCAT | | | | | |
| 5 | TAAAGATGTG CTCTGCTTTT | | | | | |
| | GCAGACTCTT CTCAACTCTT | | | | | |
| | TAAATAAATA ANGGAATCGG | | | | | 265 |
| | marraum modulitodo | ou.u.u. | | | | |
| | SEQ ID NO:4744 | | | | | |
| 10 | SEQUENCE LENGTH: 177 | | | | | |
| | SEQUENCE TYPE:nucleic | acid | | • | | |
| | TOPOLOGY: linear | | | | | |
| | CLONE: HUMGS05631 | | | | | |
| 15 | SEQUENCE DESCRIPTION: | | | | | |
| | GATCCCTAAC ATACTGTACT | ACTTGCTTNT | ACAATGTGTT | AGCAGAAACC | AGTGGGTTAT | 60 |
| | AATGTAGAAT GATGTGCTTT | CTGCCCAAGT | GGTAATTCAT | CTNGGTTTGC | TATGTTAAAA | 120 |
| | CTGTAAATAC AACAGAACAT | TAATAAATAT | CTCTGGTGTA | GCACCTTTTA | CTGTAAA | 177 |
| 20 | • | | | | | |
| | SEQ ID NO:4745 | | | | | |
| | SEQUENCE LENGTH: 377 | | | | | |
| | SEQUENCE TYPE:nucleic | acid | | | | |
| | TOPOLOGY: linear | | | | | |
| 25 | CLONE: HUMGS05632 | | | | | |
| | SEQUENCE DESCRIPTION: | | | • | | |
| | GATCAGCCGA AGAAAGCAGA | AGCTCTGGAG | GCTGCCATCG | AGAACCTCAA | TNAAGCCAAG | 60 |
| | AACTATTTTG CAAAGNTTGA | CTGCAAAGAG | CGCATCAGGG | NCGTCGTTTA | CTTCCAGGCC | 120 |
| 30 | AGACTCTACC ATACCCTGGG | GAAGACCCAG | GAGAGGAACC | GGTGTGCGAT | GCTCTTCCGG | 180 |
| | CAGCTGCATC AGGAGCTGCC | CTCTCATGGG | GTACCCTTGA | TAAACCATCT | CTAGAGAGGA | 240 |
| | CATCCCTGCT GGGCTGCTGT | GCAGAGTATA | ${\bf AGATTTTGGA}$ | CTTGTTCATG | TCCCCTCTCT | 300 |
| | CCCTATAAGG GGTGTATTTG | TGACACCCTA | TCTNGTCANT | AAACAGCATT | TCTGATTAAA | 360 |
| 35 | AANAANAAAA AAANAAN | | | | | 377 |
| 33 | | | | | | |
| | SEQ ID NO:4746 | | | | | |
| | SEQUENCE LENGTH:89 | | | | | |
| | SEQUENCE TYPE: nucleic | acid | | | | |
| 40 | TOPOLOGY:linear | | | | | |
| | CLONE: HUNGS05634 | | | | | |
| | SEQUENCE DESCRIPTION: | | | | | |
| | GATCCTGAAG TTTTTGGTCA | ATAGGCTCTG | TCTTCGTGAG | AGACGGGCTG | AGAGTCAGAA | 60 |
| 45 | ATAAATCAAC CATTTNTGGT | TTATTCAAA | | | | 89 |
| | SEQ ID NO:4747 | | | | | |
| | SEQUENCE LENGTH: 55 | | | | | |
| | SEQUENCE TYPE:nucleic | acid | | | | |
| 50 | TOPOLOGY: linear | aciu | | | | |
| | CLONE: HUMGS 05635 | | | | | • |
| | 0201.5.H0H0D00000 | | | | | |

| | SEQUENCE DESCRIPTION: GATCTTTCTT CTCCCAGCTA AG | GAGTTCTTC AATAAATTTA | AGAAATACCT | GGAAA · | 55 |
|----|---|---|--|--|-----|
| 5 | SEQ ID NO:4748 SEQUENCE LENGTH:244 SEQUENCE TYPE:nucleic ac: TOPOLOGY:linear CLONE:HUMGS05636 | id | | | |
| 10 | SEQUENCE DESCRIPTION: GATCAGCAGG GACCAAACCA TTO GAGTNTGCAC CAAGTNTGAN TTO | | | | |
| 15 | ATTTGGGTGA GTGCATGCCA ACC GTGACCCCAG CNTCCCGGCA AAC NTGN | | | | |
| 20 | SEQ ID NO:4749 SEQUENCE LENGTH:184 SEQUENCE TYPE:nucleic aci TOPOLOGY:linear CLONE:HUMGS05637 | id | | | |
| 25 | SEQUENCE DESCRIPTION: GATCGCAGGG CCNTAGGTGC CTG GGAAGGGCGC TGAGAAAGGC ACC TCCCCGTTCT CTTGTCCACA CAG CAAA | CAGCTCCT TGGACCCCAC | CTCCCATGCT | CTCACTCTCA | |
| 30 | SEQ ID NO:4750 SEQUENCE LENGTH:282 SEQUENCE TYPE:nucleic aci | i.d | | | |
| 35 | TOPOLOGY:linear CLONE:HUMGS05639 SEQUENCE DESCRIPTION: | | | | |
| 40 | GATCCTAGTT GCCTTTGTGT ATA CCCTGTATCT TGTAGAAATG TTG GCCAACTATT TCAGNTGTGT TTN ACTTTGTGTA GTGAATTCCA CAG TACACAGATA TTCAATAAAA ANG | GGGGTGTT TTCCTCTGCC NACCTTCA TTTTTGATGA GTAGTTTT CTGANTGTNG | ATATGGCTCG GGTGATTTAA TTAAAAATGA | TGGCCTGCGA ANNTNGTTTC CTTAACATAT | 180 |
| 45 | SEQ ID NO:4751 SEQUENCE LENGTH:65 SEQUENCE TYPE:nucleic aci TOPOLOGY:linear | i d | | | |
| 50 | CLONE: HUMGS05640 SEQUENCE DESCRIPTION: GATCCCATTG TGTATAAGTT AAT | FATGTGAT AACTATTGAA | TCTTGT&C&& | | |

| | TGAAA | | | | | 65 |
|----|---|--|--|--|--|------------|
| 5 | SEQ ID NO:4752 SEQUENCE LENGTH:159 SEQUENCE TYPE:nucleic TOPOLOGY:linear CLONE:HUMGS05642 | acid | | | | |
| 10 | SEQUENCE DESCRIPTION: GATCCATCCG CGGTGTTGCC ACAGGGTGGA GGCACCACAA TGGACACTTT ATCAATAAAA | TGTATCTGTG | TCCCCAGAAA | | | |
| 15 | SEQ ID NO:4753 SEQUENCE LENGTH:352 SEQUENCE TYPE:nucleic TOPOLOGY:linear | acid | | | | |
| 20 | CLONE: HUMGS05643 SEQUENCE DESCRIPTION: GATCTTGAGT TGCAGTCCAC ATACTATCTG TGCCTGTAAT | | | | | 60 |
| 25 | ATCTTCTGGA GTAGTCCAAA ACTGATAGCA GAATAATAAT CCTTGANATT CATTAGTNTG ANTTAGTTGT CTAAATNTTT | CAATGTTTGG GCATCTNACT TCATANGTTT | AAAAACATGG TCTATATAGN TAGGAAAGGT | GACTGTATGT GATAGNCTTA AGGACCCGGN | CATTACTATG CATAGGTTAC AAGNNGTTCT | 180 240 |
| 30 | SEQ ID NO:4754 SEQUENCE LENGTH:297 SEQUENCE TYPE:nucleic TOPOLOGY:linear | acid | | | | |
| 35 | CLONE:HUMGS05644 SEQUENCE DESCRIPTION: GATCGGCTCA AAGCCTGTCA | | | | | 60 |
| 40 | GAAGTGGAGC AGTTCACCCA GCCTACAGTT CTGCCAGGAA AAAGCTGCAA AAGAGGCCGN GTGGCTCTGT ATNACTTGTT | GTGCCTGGCC CGCTGCCACC | AAACAGAGGC TNCTGAGGCA | AGAGGATGCT GCTGTGGGTG | GCAAGAGAGA CCCCTGCTGT | 180 |
| 45 | SEQ ID NO:4755 SEQUENCE LENGTH:126 SEQUENCE TYPE:nucleic TOPOLOGY:linear | acid | | | | |
| 50 | CLONE: HUMGS05645 SEQUENCE DESCRIPTION: GATCCCAGGC CTGTGGCTAG GTGACAGGCT CAGCCTNGTN | | | | | 60 120 |

GCCAAA

55

126

| | | SEQ ID NO:4756 | | | | | |
|---------|---|------------------------|------------|------------|-------------------|------------|-----|
| 5 | ا العالمة العالمة العالم | SEQUENCE LENGTH: 317 | | | | | |
| | | SEQUENCE TYPE: nucleic | acid | | | | |
| • . | 1 | TOPOLOGY:linear | | | | | |
| | | CLONE: HUMGS05646 | | | | | |
| 10 | er ny . P | SEQUENCE DESCRIPTION: | | | | | |
| | | GATCTAAAAA GTCAAAAATC | TGAAATTTAA | TAATATGAGA | CTTACACTGA | NTATAATGTT | 60 |
| | | CATTTAGAAG TTGCTGTGGT | CCACTTCATT | TATANGGAAC | AAATATTTT | ACAGTACACT | 120 |
| | 4 | ATAGCAACAG CAAAAGCCCT | CTCTCACCCT | GATAGGAATG | GGTTTGCTGG | GTGTCTAGAA | 180 |
| | | GTTAGATTCC TGCTGAATAG | ANTTAGCCAT | CCTTAAAAGA | TNTTAATCCA | ATACTGAACT | 240 |
| 15 | | GGTTTATAAA ANGCTTTCTC | TATTGTANTG | NACTGTAAGT | AGTGAAATTC | TGTATATACT | 300 |
| * | | GCTATTNGCT GNCTGTN | | | | | 317 |
| | | | | | | | |
| | | SEQ ID NO:4757 | | | • | | |
| 20 | | SEQUENCE LENGTH: 228 | ٠. | | | | |
| | | SEQUENCE TYPE:nucleic | acid | | | | |
| | | TOPOLOGY:linear | • | | | | |
| | | CLONE: HUMGS05647 | | | • | | |
| | <i>i</i> · | SEQUENCE DESCRIPTION: | | | | | |
| 25 | 1 | GATCAGTAAT CCTATTAAAG | AAGCGGAAGA | AGATACCTCA | GAAAGGTCGG | AAGAAAAAG | 60 |
| | | GTTTTCGGAG GCGGCGGTGA | TTATGGGTGT | ACATATTTGT | ${\bf ATATTTTTG}$ | TCATCCTGAG | 120 |
| | | ATACTTCTAA TTTCATTGTA | TATAGGTGGT | TTTCCCTGGA | ATTCATTAAT | TGTTTGCTTT | 180 |
| • | | GGACATGTGG AAAGAGCCTT | ACTAATAAAA | TTGATTTTAC | TTATGAAA | | 228 |
| 30 | | | | | | | |
| | | SEQ ID NO:4758 | | | | | |
| | | SEQUENCE LENGTH: 312 | | | | | |
| | | SEQUENCE TYPE:nucleic | acid | | | | |
| 35 | • | TOPOLOGY: linear | | | | | |
| •• | | CLONE: HUMGS05648 | | | | | |
| | | SEQUENCE DESCRIPTION: | | | | | |
| | | GATCAGTTCT GAAACAGTTT | | | | | |
| | | AATGCTTTGA AAAGAATGAG | GCCATACAGG | CAGCCCATGA | TGCCGTGGCA | CAGGAAGGCC | 120 |
| 40 | | AATGTCGGGT AGATGACAAG | GTGAATTTCC | ATTTTATTCT | GTTTAACAAC | GTGGATGGCC | 180 |
| | | ACCTCTATGA ACTTGATGGA | | | | | |
| | | ACACCCTGCT GAAGGACGCT | GCCAAGGTCT | GCAGAGAATT | CACCGAGCGT | GAGCAAGGAG | 300 |
| | | AAGTCCGCTT TN | | | | | 312 |
| 45 | | | | | | | |
| | | SEQ ID NO:4759 | | | | • | |
| | | SEQUENCE LENGTH: 95 | | | | | |
| | | SEQUENCE TYPE: nucleic | acid | | | | |
| | | TOPOLOGY: linear | | • | | | |
| 50 | | CLONE: HUMGS05649 | | | | | |
| | • | SEQUENCE DESCRIPTION: | | | | | |
| | | | | | | | |
| | | | | | | | |

| | GATCAAGGTA AGAAACATTG AGTGATTTCT ATTAAAAAGG | | | GCTATTTGTT | TCCTAAAAAC | 60 95 |
|----|--|------------|------------|------------|------------|------------|
| 5 | SEQ ID NO:4760 SEQUENCE LENGTH:336 | | | | | |
| | SEQUENCE TYPE:nucleic TOPOLOGY:linear | acid | | | | |
| 10 | CLONE: HUMGS05650 SEQUENCE DESCRIPTION: | | | | | |
| | GATCCTNTTT CCANTTNAAA | GGAACTGTAA | GCTTTTATCT | TTTAACCAAC | TGAACAATAC | 60 |
| | ACCAAAAGCA GCCTAGGGAT | | | | | 120 |
| | TAAAACTATT TACTGTTAAA | AAATCTGTGA | CTTCATGAAG | TTGATTTNTA | AAGGCAGCAT | 180 |
| 15 | CANAAACTGA NANGGAAGGG | AAANANTAGG | CAGCTTCTCT | GCACTTGTTT | GGAGCTCCCC | 240 |
| | AAANCAGGGT GCCATGGGGN | AGTGGGCATC | AAGNCCGGGC | TGCCCTTTCG | NGGTCANCCT | 300 |
| | GTGGCAGTTC AGAGTCANGG | TTTTTCCTNC | GCTGGN | | | 336 |
| 20 | SEQ ID NO:4761 | | | | | |
| | SEQUENCE LENGTH: 310 | | | | | |
| | SEQUENCE TYPE:nucleic | acid | | | | |
| | TOPOLOGY:linear | | | • | | |
| 25 | CLONE: HUMGS05651 | | | | | |
| | SEQUENCE DESCRIPTION: | | | | | |
| | GATCCAAATT CCCAGGTCGG | | | | | |
| | GGGTACAATG GGATGCCAAA | | | | | |
| | GAGAATAAGC TGGACACCAA | | | | | |
| 30 | AACAAAATT CGACCGATGT | | | | | |
| | GAATGCGCTA AGCTCATCAT ATACCATNTN | CCAGGCAGGT | ATAAAAGAAG | TGATTTTCAT | GICTNGATAA | 310 |
| 35 | SEQ ID NO:4762 | | | | | |
| 33 | SEQUENCE LENGTH: 364 | | | | | |
| | SEQUENCE TYPE:nucleic | acid | | | | |
| | TOPOLOGY: linear | | | | | |
| | CLONE: HUMGS05652 | | | | | |
| 40 | SEQUENCE DESCRIPTION: | | | • | | |
| | GATCCCCTCC AAGGAGCACC | | | | | 60 |
| | GGGCATGTTC ACTGCCGAAG | | | | | |
| | TCGTTTCCAG GCCTCTCCCC | | | | | |
| 45 | TTCCAATTCC CTGCTNCNNN | | | | | |
| | TGGGGCTCTG CTGGTTAAGG | | | | | |
| | GTGCTGTTAC ACAGTGTCAT | TGTTGATGTT | AAATTAAAGT | CATATTCTTG | CTTCTTTCCG | 360 364 |
| 50 | SEQ ID NO:4763 | | | | | |
| | SEQUENCE LENGTH: 333 | | | | | |

| | SEQUENCE TYPE:nucleic TOPOLOGY:linear | acid | | | | |
|-----|--|--------------|------------|------------|------------|-----|
| | CLONE: HUMGS05653 | | | | | |
| 5 | SEQUENCE DESCRIPTION: | ٠ | | • | | |
| | GATCGTCTGG AAGCAGCAGA | GATGTACAGA | AAAGCTGCTT | GGGAAGCGTA | TTTGAGTAGA | 60 |
| | CTTGGTGTTT GAGTGCTTCA | GATACATTTT | TCAGATACAA | TNTGAAGACA | TTGAAGATAT | 120 |
| | GTGGTCCTCC TGAAAGTCAC | TGGCTGGAAA | TAATCCAATN | ATTCCTGCTT | GGATTCTTCC | 180 |
| 10 | ACAGGGCCTG TGTAAGAATG | GGTTCTGGAG | TTCTCATGGG | NCTTTTAGGA | AATATTGAGT | 240 |
| | AATTTGGTAA NTCACCGNAT | TGGTTACTAT | ANATAAGGTC | CCANTNCNTT | AAGGCTTGAT | 300 |
| | AAGGTGAATN GNGGTGNGNN | NTNTGGGGG | AGN | | | 333 |
| 15 | SEQ ID NO:4764 | • | • | | | |
| 15 | SEQUENCE LENGTH: 131 | | | | | |
| | SEQUENCE TYPE:nucleic | acid · | · | | | |
| | TOPOLOGY:linear | | | | | |
| | CLONE: HUMGS05654 | | | | | |
| 20 | SEQUENCE DESCRIPTION: | M | | | | |
| • | GATCCTCCAA AATTCAAACA | | | | | 60 |
| | TTCTTTACTT CTCATCCCAT | ATATAATATT | ATATAANGCA | TACGTAATAA | AAGACATTCA | |
| | CTATTATTAA A | | | | | 131 |
| 25 | SEQ ID NO:4765 | | | | | |
| | SEQUENCE LENGTH: 271 | | | | | |
| | SEQUENCE TYPE: nucleic | acid | | | | |
| | TOPOLOGY: linear | acru | | | | |
| 30 | CLONE: HUMGS05655 | | | | | • |
| | SEQUENCE DESCRIPTION: | | | | | |
| 1 | GATCTCTTTT GCTATGGCTC | ACATTATTTT | CATAAAGTTG | CTGGCCAGCT | TTTACCTCTT | 60 |
| | GCATATAATC TGTTGAAGAG | | | | | |
| 0.5 | AGAAGTCAAG AGAACATAGA | CCAACTTGCT | GCATGAGTAA | GGTGGCTTTG | NTTGGTGTAC | 180 |
| 35 | AGTATTTCAA AGGACTAGTA | TTAANCTTGT | GATTTNGGTT | TTGTTTTTAA | GGGGTACANN | 240 |
| | NNGTAAGCCA TTTNCTTAAN | AACCGTTGAA | A | | | 271 |
| | and the tree | | | | | |
| 40 | SEQ ID NO:4766 | | | | | |
| | SEQUENCE LENGTH:87 SEQUENCE TYPE:nucleic | | | | | |
| | TOPOLOGY: linear | acıq | | | • | |
| | · · · · · · · · · · · · · · · · · · · | | • | | | |
| | CLONE: HUMGS05656 SEQUENCE DESCRIPTION: | | | | | |
| 45 | | ~~. ~~~~~. ~ | 0.TCC.CT.C | ******* | CTCTCC+000 | ~~ |
| | GATCTTTCTC TTGAGTCATT | | CAIGGACIAG | 1606160100 | GIGICCACCC | 60 |
| | CAATAAAAGG GTCTTTCCTA | CITUAAA | | | | 87 |
| | SEQ ID NO: 4767 | | | | | |
| 50 | SEQUENCE LENGTH: 293 | | • | | | |
| | SEQUENCE TYPE:nucleic | acid | | | | |

| | TOPOLOGY: linear | | | | | |
|------------|--|-----------------------|--------------|----------------|------------|-----|
| | CLONE: HUMGS05657 | | | | | |
| 5 | SEQUENCE DESCRIPTION: GATCTGGGCA ATTTTGGCCT | ምር እ ር ምር ምምምር | CTCCCTCCAC | A CCTC & A CCT | TACANCCCAC | 60 |
| 3 | CCCTGCTATT TCCAGCCTCC | | | | | |
| | GCAACAGGGA GACCTACAGG | | | | | |
| | GGGGAGGTTG NCAGATGTGA | | | | | |
| | CTTTNGAAGA ACATCANTNA | | | | | 293 |
| 10 | CITINGANGA ACATCANTNA | AAAIAIANUU | OIMMIIMAAI | INIUUUNAA | AAN | 233 |
| | SEQ ID NO:4768 | | | | | |
| | SEQUENCE LENGTH: 313 | | | | | |
| | SEQUENCE TYPE:nucleic | acid | | | | |
| 15 | TOPOLOGY: linear | acra | | | | |
| | CLONE: HUMGS05658 | | | | | |
| | SEQUENCE DESCRIPTION: | | | | | |
| | GATCTTGCTA GGGAAGGCCA | CCTTGTATGC | CGTGCTGGTC | AGTGCCCTCG | TGCTGATGGC | 60 |
| | CATGGTCAAG AGAAAGGATT | | | | | |
| 20 | CCTCACCCAG GATTCTCCTG | - | | | | |
| | CTGCTTCTCA TCTCCTACTT | | | | | |
| | TGAGCTCCCA ACCCCCAAGT | | | | | |
| | CCTGGGGNGC AAA | noonbrinaa | 017881007811 | MDDUDINIGI | 0100110000 | 313 |
| 25 | CCIOGONICO NEM | | | | | 310 |
| | SEQ ID NO:4769 | | | | | |
| | SEQUENCE LENGTH: 279 | | | | | |
| | SEQUENCE TYPE:nucleic | acid | | | | |
| 30 | TOPOLOGY: linear | | | | | |
| | CLONE: HUMGS05659 | | | | | |
| | SEQUENCE DESCRIPTION: | | | | | |
| | GATCCCCTCA TCACCCCTGT | GCCCACTTCG | GAGAACCCNT | TCCGGGAGAA | GAAGTTCTTC | 60 |
| | TGTGCTCTCC TCTGAGCTCC | | | | | |
| 35 | GCCCTTCCTT AGGTCAGTAA | | | | | |
| | CCCTTGCCTG ACCATGTGAG | | | | | |
| | ACCCGATTTC CTACCACCTT | | | | | 279 |
| | | | | | | |
| 40 | SEQ ID NO:4770 | | | | | |
| | SEQUENCE LENGTH: 203 | | | | | |
| | SEQUENCE TYPE: nucleic | acid | | | | |
| | TOPOLOGY: linear | | | | | |
| 45 | CLONE: HUMGS05660 | | | | | |
| <i>4</i> 5 | SEQUENCE DESCRIPTION: | | | | | |
| | GATCCATGTA ATCTGACGTC | ATCTTGTCTC | GAAGTCTCTT | TTTTTGGCCC | AGGCCTTGAA | 60 |
| | GAATACACTG TGACTTAAGA | | | | | |
| | TTCGAGGAGT GCCGTGTGTT | | | | | |
| 50 | ATAAACCTGA AGTCGTGATG | | | | | 203 |

| _ | SEQ ID NO:4771 SEQUENCE LENGTH:112 SEQUENCE TYPE:nucleic | acid | | | | |
|----|--|------------|------------|------------|------------|-----------|
| 5 | TOPOLOGY:linear CLONE:HUMGS05661 SEQUENCE DESCRIPTION: | | | | | |
| 10 | GATCGTTGTG CTTTNTTTNC CTTTAATGGC CCGNGTGCAC | | | | | 60 112 |
| | SEQ ID NO:4772 SEQUENCE LENGTH:291 | | | | | |
| | SEQUENCE TYPE:nucleic | anid | | | | |
| 15 | TOPOLOGY: linear | aciu | | | | |
| | CLONE: HUMGS05662 | | | | | |
| | SEQUENCE DESCRIPTION: | | | | | |
| | GATCTGGGAG GTGGAAGCCA | GGCCAGAGGA | CTTGGGGAAA | ATNAGATGGA | GGAAGGAAAA | 60 |
| 20 | AGGGAGAAGC TGAGCCACAG | | | | | |
| | CCACCCCAGG AGAGGACCTC | | | | | |
| | CAGNCTGNGA AACCCAGANG | CTGGGTAGTC | ATGTGGGGCT | TGCCTTCTTT | TGCCAAAACG | 240 |
| | NCTGGGGGAA NCCAAAAATN | GGGCCCCACC | CTTNNTGTTT | CTTTCCTTNG | N | 291 |
| 25 | 474 IN VA 1554 | | | | | |
| | SEQ ID NO:4773 | | | | | |
| | SEQUENCE LENGTH: 133 | 2 3 | | | | |
| | SEQUENCE TYPE:nucleic | acid | | | | |
| 30 | TOPOLOGY:linear CLONE:HUMGS05665 | | | | | |
| 00 | SEQUENCE DESCRIPTION: | | | | | |
| | GATCCCAGGC CTNTGGCTAG | CAGCACTGAG | GACAAGGAAA | TECNTESTOS | CCTTGAGTAG | 60 |
| | GTCGTTACAA GGCTCAATGC | | | | | |
| | CTTTCCTGCC AAA | Olddinglol | Iddaddalac | TOUGHAMIAA | ATTUTACAG | 133 |
| 35 | | | | | | 100 |
| | SEQ ID NO:4774 | | | | | |
| | SEQUENCE LENGTH: 316 | | | | | |
| | SEQUENCE TYPE:nucleic | acid | | | | |
| 40 | TOPOLOGY: linear | | | | | |
| | CLONE: HUMGS05667 | | | | | |
| | SEQUENCE DESCRIPTION: | | | | | |
| | GATCACCCAG CAGGAGTCGT | | | | | |
| 45 | TCATCAAGGG AGCTTGAATG | | | | | |
| | CATCCCCCAT GATGCTGTGT | | | | | |
| | AACAGCCCAC TCTGCTTCCC | | | • | | |
| | TAGACCAAGG CTGTGCATGA | TTCACCCCNT | CCTTCCATCC | TGGAGCTGGC | AGTGAATAAA | |
| 50 | AGCCCGTATT TACAAA | | | | | 316 |

SEQ ID NO:4775

| | SEQUENCE LENGTH:113 SEQUENCE TYPE:nucleic TOPOLOGY:linear | acid | | | | |
|----|---|------------|------------|------------|------------|-----------|
| 5 | CLONE: HUMGS05668 SEQUENCE DESCRIPTION: | | | | | |
| | GATCTCCAGA GACCCAAGTT TTAAGTAGTT TAGTGCCTGG | | | | | 60 113 |
| 10 | SEO ID NO. 4886 | | | | | |
| | SEQ ID NO:4776 SEQUENCE LENGTH:157 | | | • | | |
| | SEQUENCE TYPE:nucleic | acid | | | | |
| | TOPOLOGY: linear | deru | | | | |
| 15 | CLONE: HUMGS05669 | | | | | |
| | SEQUENCE DESCRIPTION: | | | | | |
| | GATCTAACAA AAATGAAACA | TGAAATGCAG | TAGCAACCAC | TAAAAAAAA | AATTCAAGGN | 60 |
| | CATCTAACTN TTTCTCTCAC | | | | | 120 |
| 20 | NAATAAAAAN CAAAATGCTG | TATTTCTCTN | CTTACGN | | | 157 |
| | | | | | | |
| | SEQ ID NO:4777 | | • | | | |
| | SEQUENCE LENGTH: 214 | ., | | | | |
| 25 | SEQUENCE TYPE:nucleic TOPOLOGY:linear | acid | | | | |
| | CLONE: HUMGS05671 | | | | | |
| | SEQUENCE DESCRIPTION: | | | | | |
| | GATCACTTAG AGAAACAGGC | CGTTAGGAAT | CCATTCTCAC | TETETTCECT | CTAAACAAAA | 60 |
| 30 | CAGTGGTAGG TTANTGTGTT | | | | | |
| | GTCACANCTA CACAGNGANT | | | | | |
| | TTTGCAGNAT AAACAGGGCA | | | | | 214 |
| | SEQ ID NO:4778 | | | | | |
| 35 | SEQUENCE LENGTH: 141 | | | | | |
| | SEQUENCE TYPE:nucleic | acid | | | | |
| | TOPOLOGY: linear | aciu | | | | |
| | CLONE: HUMGS05673 | | | | | |
| 40 | SEQUENCE DESCRIPTION: | | | | | |
| | GATCAGTTTN CAGCAGCAAG | TACAAAAGGA | GAAGAGGAAC | ATCCGTTGAA | TNAGTGTGTT | 60 |
| | TTGTACATAA CTTCAGATAC | | | | | 120 |
| | AAAGAACATT CTAAAATNAA | A | | | | 141 |
| 45 | | | | | | |
| | SEQ ID NO:4779 | | | | | |
| | SEQUENCE LENGTH: 154 | | | | | |
| | SEQUENCE TYPE:nucleic | acid | | | | |
| 50 | TOPOLOGY: linear | | | | | |
| | CLONE: HUMGS05674 | | | | | • |

| | GATCTTGTGA AAACACNGTN GCTAAAAAGA GGGACTGTTA TGTCTTTNGT AAAAGTATTA | AATACAATGT | ATGATACCAT | | | |
|----|---|-----------------------|---------------|--|------------------------|----------|
| 5 | | | | | | |
| | SEQ ID NO:4780 | | | | | |
| | SEQUENCE LENGTH: 236 | | | | | |
| | SEQUENCE TYPE:nucleic | acid | | | | |
| 10 | TOPOLOGY: linear | | | • | | |
| | CLONE: HUMGS05676 | | | | | |
| | SEQUENCE DESCRIPTION: GATCAAAATA GCTATTGCTA | <i>ር ል እር እ</i> ምጥጥኖር | GAAAACAAAG | TTCCCCCTCT | ለ ተ ጥተር ጥጥጥ ል ል | 60 |
| | AAAGATAAGC CTCTAAAAAT | | | | | |
| 15 | ATTAATGAGA AAATGAAAGT | | | | | |
| | TTTTNATGAA TTTNATGCCA | | | | | 236 |
| | TITINATUM TITIMITOON | diidiiinon | 1011101111111 | | | |
| | SEQ ID NO:4781 | | | | | |
| 20 | SEQUENCE LENGTH: 168 | | | | | |
| 20 | SEQUENCE TYPE: nucleic | acid | | | | |
| | TOPOLOGY:linear | | | | | |
| | CLONE: HUMGS05679 | | | | | |
| | SEQUENCE DESCRIPTION: | | | | | |
| 25 | GATCTCAGTT GCACGTGCAA | ACAAATCCAA | ATTCGAACAT | TCTTAGGAGG | TTTTTTTAA | 60 |
| | GGCATGACAG ATGATNTAAA | CAAATÀAATA | GCATGCAACA | AAANGTCTTT | ATTGNAAGAA | 120 |
| | GTGGAAGTTA TCTTAATGCC | ACGGNTCACC | ANCAATTNAA | AAGTANAN | | 168 |
| | | | | | | |
| 30 | SEQ ID NO:4782 | | | | | |
| | SEQUENCE LENGTH: 79 | | | | | |
| | SEQUENCE TYPE:nucleic | acid | | | | |
| | TOPOLOGY: linear | | | | | |
| 35 | CLONE: HUMGS05680 | | | | | |
| | SEQUENCE DESCRIPTION: | mma.caa.a | | ###################################### | T101101111 | co |
| | GATCAGTGAA CACTAACATT | TTGGGGACAA | CTTAGTCAAT | IGGITTICCI | IAUAAUAAAA | 60 79 |
| | TAAAGTAAAA TGTAGCAAA | | | | | 19 |
| 40 | SEQ ID NO:4783 | | | | | |
| | SEQUENCE LENGTH: 107 | | | | | |
| | SEQUENCE TYPE:nucleic | acid | | | | |
| | TOPOLOGY: linear | acra | | | | |
| | CLONE: HUNGS05681 | | | | | |
| 45 | SEQUENCE DESCRIPTION: | | | | | |
| | GATCACCATT CAATTTGAGT | TTCCAGGGGG | AAGTGCATGT | ATAATGNAAT | GATAATGGAC | 60 |
| | TTCAATGANG GATGTCATCA | | | | | 107 |
| | | | | | | |
| 50 | SEQ ID NO:4784 | | | | | |
| | SEQUENCE LENGTH: 319 | • | | | | |

| 5 | SEQUENCE TYPE:nucleic TOPOLOGY:linear CLONE:HUMGS05682 SEQUENCE DESCRIPTION: GATCTAATAA GACACGTAAT GATGACTTCT CACTGGCTTG AAGACTGGGC GTGGTGATGG TTTCAGAGCA ATGTTAAATA TTCTAAAAAT NTTGCTTAAT | AGATTAGAAG AAATNCTAAA GTGTAGAAAT CTTTCCTTGA | TGGATGACGG TGAGAAAGGA TAGTGGGTCA | TGCTGTTTAG AAATCAAGAN GTCATCATTT | TGAGTTGGGG TTTCCAGAAC ATAAGTGCAT | 120 180 240 |
|----|--|--|--|--|--|-------------------|
| 15 | SEQ ID NO:4785 SEQUENCE LENGTH:78 SEQUENCE TYPE:nucleic TOPOLOGY:linear | acid | | | | |
| 20 | CLONE: HUMGS05683 SEQUENCE DESCRIPTION: GATCTTTCAT CTGTGATTCT ATTGACTTAA ACAGCAAA | TATAAGAGCT | TTGTCTTCAG | AAAAACTAAA | AATAAAAGGC | 60 78 |
| 25 | SEQ ID NO:4786 SEQUENCE LENGTH:51 SEQUENCE TYPE:nucleic TOPOLOGY:linear | acid | | | | |
| 30 | CLONE:HUMGS05684 SEQUENCE DESCRIPTION: GATCAGTTGT AAGTTCATTT | CTTTACAAAT | AAAAGCCTCT | TCCATTTGAA | A | 51 |
| 35 | SEQ ID NO:4787 SEQUENCE LENGTH:288 SEQUENCE TYPE:nucleic TOPOLOGY:linear | acid | | | | |
| 40 | CLONE:HUMGS05685 SEQUENCE DESCRIPTION: GATCTTTTCC ATCTGAGGGT AAGCACATTC CAAGACTGGC TTTCAAANGC ACCTTAACAA | CTGAAACTGC | ATGAGCAACA | TCACTCGAAA | TAATTTTTTT | |
| 45 | TCTNTCCTTT CTCGTCCCNA CTCTGTTNTN GTATACTCAA | TGCTCCACCA | NCTCAGTGCT | NTGTGCTGTA | | |
| 50 | SEQ ID NO:4788 SEQUENCE LENGTH:278 SEQUENCE TYPE:nucleic TOPOLOGY:linear CLONE:HUMGS05686 | acid | | | | |

| | SEQUENCE DESCRIPTION: | | | | | |
|----|------------------------|------------|------------|------------|------------|-----|
| | GATCATGCAT GCAGTCATGT | CTCCAGTATT | CTGTGAAAAG | CCAGGATACG | TTAGGATGTG | 60 |
| | AGTTTAGAAA CTGAGTCCAT | TCGGTGCATG | GAAATNCACC | GCGGAGTTAC | ACAANGCTCC | 120 |
| 5 | TCACTGTAGT CCAGGCGATT | GGTNGGCCGC | CANCACCCTG | CGGGCTTCAC | AGGGACGCGT | 180 |
| | GCTTGTNCTC CAAGNCCCGN | AACCCTTACT | GTGCACACAN | CATCNNACAC | ACCTTTGTTT | 240 |
| | TTGAAATTAA AATGTTNATT | AGTTNAAAAA | AGGGNGGN | | | 278 |
| 10 | SEQ ID NO:4789 | | | | | |
| | SEQUENCE LENGTH: 337 | | | | | |
| | SEQUENCE TYPE: nucleic | acid | | | | |
| • | TOPOLOGY:linear | | | | | |
| 15 | CLONE: HUMGS 05687 | | | | | |
| 75 | SEQUENCE DESCRIPTION: | | | | | |
| | GATCCCGGTG TGTGGCCCAG | | | | | |
| | GCACTTTCCC GGGGAGAGAA | | | | | |
| | TAGGAAGGTC TGGCCTGGGG | | | | | |
| 20 | GACCTGCTTT GCCATTNTCC | | | | | |
| | CCNAGCTGGC AGTTGAGCTG | | | NCTTTGGTAA | CTTGNGTGAA | |
| | CCATAATAAN GGGGAACCAT | TNTNGGCCTT | GTGNAAA | | | 337 |
| 25 | SEQ ID NO:4790 | • | | | | |
| | SEQUENCE LENGTH: 251 | | | | | |
| | SEQUENCE TYPE: nucleic | acid | | | | |
| | TOPOLOGY: linear | | | | | |
| | CLONE: HUMGS05688 | | | | | |
| 30 | SEQUENCE DESCRIPTION: | | | | | |
| | GATCACAAGG CTGCCTGCCT | | | | | |
| | ANAGCCTCAC CAGCAGCTGC | | | | | |
| | ATCAAACTGC CTGGATTTTT | | | | | |
| 35 | CCAGCCCTGA GTTCTGGGCT | CATTTGAAGC | CTGGAATAGC | AATAAATCTT | TTTAACTTGC | |
| | GGACAGTTAA A | | | | | 251 |
| | SEQ ID NO:4791 | | | | | |
| 40 | SEQUENCE LENGTH: 316 | | | | | |
| 40 | SEQUENCE TYPE:nucleic | acid | | | | |
| | TOPOLOGY: linear | | | | | |
| | CLONE: HUMGS05689 | | | | | |
| | SEQUENCE DESCRIPTION: | | | | | |
| 45 | GATCGAAGAT GTACAATGTT | | | | | 60 |
| | AGCTGGNATC TACTTGAAAT | | | | | |
| • | CCGTTTAAGT GTAAAATGCA | | | | | |
| | TGGTCCTCTG GAAGCATTTA | | | | | |
| 50 | TCGTCTNCTG GTCCTTGGNC | TNTTCTGGTT | CTGTNANTGC | TTGTAACCAA | TGANTGATGG | |
| | TGTTGCCAAT CTNAGN | | | | | 316 |

| | SEQ ID NO:4792 | | | | | |
|--------------------------|--|--|--------------|------------|-------------|-----|
| | SEQUENCE LENGTH: 34 | 16 | | | | |
| | SEQUENCE TYPE: nucl | eic acid | | | | |
| 5 | TOPOLOGY: linear | | • | | | |
| | CLONE: HUMGS05690 | | • | | | |
| | SEQUENCE DESCRIPTI | ON: | | | | |
| | GATCAGTCCT GTCATCC | AGC TGCAGCCCA | C CTTCACACCC | ATGCGGGTCG | CACTNGCTGG | 60 |
| 10 | CACATTCCAC TACTACA | GCT GCGAGAGAG | C CAAAAAGGCC | ATGGGCTACC | AGCCACTAGT | 120 |
| | GACCATGGAT GATGCTA | TGG AGAGGACCG | T GCAGAGCTTT | NGCCACCTGC | GGAGGGTCAA | 180 |
| | GTGAGGGNCA CTNGNGG | CTG GGCTCTCTN | G ACACGTTGCT | CAGCCAGTCA | CTNCTTCCCC | 240 |
| | TGNTGGATTG ATGAGNT | AAC ATCCTTTNG | A ATGGAGTTTN | GCTCTTTGCC | TGTGACTCCT | 300 |
| | TCTGCTAGGC AGNGGAG | CGC ACCNTACTN | T TTNCGTNGCG | GTGNGN | | 346 |
| 15 | | | | | | |
| | SEQ ID NO:4793 | | | | | |
| | SEQUENCE LENGTH: 18 | 17 | | | | |
| | SEQUENCE TYPE: nucl | eic acid | | | | |
| 20 | TOPOLOGY:linear | | | • | | |
| | CLONE: HUMGS05692 | | | | | |
| | SEQUENCE DESCRIPTI | | | | | |
| | GATCCCAGGG ACTCATC | | | | | 60 |
| 25 | GGAATTATTG CTTCATC | | | | | |
| 25 | TGCAAAATTT GAANNNN | AATTTANTT TNNI | A TATTAGAAAT | AGCACAAAGT | CATGGNGTTT | 180 |
| | TTAANAN | | | | | 187 |
| | 484 ID NO 4504 | | | | | |
| | SEQ ID NO:4794 | | | | | |
| 30 | SEQUENCE LENGTH: 22 | | , | | | |
| | SEQUENCE TYPE:nucl | eic acid | | | | |
| | TOPOLOGY:linear CLONE:HUMGS05693 | | | | | |
| | SEQUENCE DESCRIPTI | '0N+ | | | | |
| 35 | GATCTCAAGA GCCCTGT | | A CTCTCTTCCA | GTTTGCTTTG | CCCTTCTTC | 60 |
| | TACCCTGCTG GGGAAAG | | | | | |
| | ACCAGGTCAG AATAGTG | | | | | |
| | CAGCAAGACT TCTCTTT | | | | dukkitotiti | 228 |
| 40 | CAUCAAUACI ICICIII | IUCC ICAAAIAAA | A AUTUOTITIO | IUNUUNAA | | 220 |
| | | | | | | |
| | SEQ ID NO-4795 | | | | | |
| | SEQ ID NO:4795 SEQUENCE LENGTH:23 | RO | | | | |
| | SEQUENCE LENGTH: 23 | | | | | |
| | SEQUENCE LENGTH: 23 SEQUENCE TYPE: nucl | | | | | • |
| 45 | SEQUENCE LENGTH: 23 SEQUENCE TYPE: nucl TOPOLOGY: linear | | | | | |
| 45 | SEQUENCE LENGTH:23 SEQUENCE TYPE:nucl TOPOLOGY:linear CLONE:HUMGS05694 | leic acid | | | | |
| 45 | SEQUENCE LENGTH:23 SEQUENCE TYPE:nucl TOPOLOGY:linear CLONE:HUMGS05694 SEQUENCE DESCRIPTI | leic acid | T ATCTGAGTGA | ATTACAGACA | ACCTATCATT | 60 |
| 4 5 | SEQUENCE LENGTH: 23 SEQUENCE TYPE: nucl TOPOLOGY: linear CLONE: HUMGS05694 SEQUENCE DESCRIPTI GATCTGCTTA AAGTTTT | leic acid ION: TAAC TTTTATACO | | | | |
| 4 5 5 0 | SEQUENCE LENGTH:23 SEQUENCE TYPE:nucl TOPOLOGY:linear CLONE:HUMGS05694 SEQUENCE DESCRIPTI | leic acid ION: TAAC TTTTATACC TCCC CAGGGCCC | T GTACAACCGA | CAGNTCTTAC | TTTTAAATGC | 120 |

| | SEQ ID NO:4796 | | | | | |
|----|--|--------------------|-----------------|------------|------------------|-----|
| | SEQUENCE LENGTH: 367 | | | | | |
| 5 | SEQUENCE TYPE:nucleic | acid | | | 7 | |
| | TOPOLOGY:linear | • () | | | | |
| | CLONE: HUNGS05695 | | | | | |
| | SEQUENCE DESCRIPTION: GATCTCATTT GCTGAATGAT | TGATTTAAGA | GT A A A A TTNG | CCACTGCGTG | ር ጥጥ ጥጥ ተር ተ A ጥ | 60 |
| 10 | AGTAACCGGT TTTGTTGCAC | | | | | • • |
| | GCAAGGAGGA GGTAAACATT | | | · | | |
| | AGTTTGTTTT GAATGAGAAA | | | | | |
| | TAAAAANGGN GCCTAATATT | | | | | |
| 45 | NCTATTTTTN ATGCCCCGTG | TAATTTTNCA | CCATTTTGNN | NATGAGTTNA | TTGTAGGGGT | 360 |
| 15 | CANNATN | | | | | 367 |
| | SEQ ID NO:4797 | | | | | |
| | SEQUENCE LENGTH: 88 | | | | | |
| 20 | SEQUENCE TYPE:nucleic | acid | | | | |
| | TOPOLOGY: linear | | | | | |
| | CLONE: HUMGS05696 | | | | | |
| | SEQUENCE DESCRIPTION: | | | | | |
| 25 | GATCTTTTCT CAGAGCGTCT | ${\tt CCATGCTATG}$ | GTTGCATTTC | CGTTTTCTAT | GAATNAATTT | 60 |
| | GCATTCAATA AACAACCAGA | CTCAGAAA | | | | 88 |
| | SEQ ID NO:4798 | | | | | |
| | SEQUENCE LENGTH: 239 | | | | | |
| 30 | SEQUENCE TYPE: nucleic | acid | | | | |
| | TOPOLOGY:linear | | | | | |
| | CLONE: HUMGS05697 | | | | | |
| | SEQUENCE DESCRIPTION: | | | | | |
| 35 | GATCACAAGT GCAGCATTCC | | | | | 60 |
| | GAACCAAGTA TGTATTGCAT | | | | | - |
| | CAAGGTAACT GGACTTCTAA | | | | | |
| | TTTTTTACA ACCCTCTGAC | TCAACAAAGT | AAATAAAAGT | ATATTTTATC | ACTATTAAA | 239 |
| 40 | SEQ ID NO:4799 | | | | | |
| | SEQUENCE LENGTH: 148 | | | | | |
| | SEQUENCE TYPE: nucleic | acid | | | • | |
| | TOPOLOGY: linear | | | | | |
| 45 | CLONE: HUMGS05701 | | | | | |
| | SEQUENCE DESCRIPTION: | | | | | |
| | GATCTGGCCT TATGCCCAGG | | | | | |
| | CACGAGCCCT TCTTGAAAGT | | CCCCAGCTGN | CAAGGAAACC | CCCAGTGTAA | |
| 50 | TANTAAATCG TCCTCCCAGG | CCAUGAAA | | | | 148 |

| 5 | SEQ ID NO:4800 SEQUENCE LENGTH:109 SEQUENCE TYPE:nucleic TOPOLOGY:linear CLONE:HUMGS05704 | acid | | | | |
|----|---|--|--|--|--|------------------|
| 10 | SEQUENCE DESCRIPTION: GATCCTCAAC AGACACCTTC NATNTNCCGC CATCCACAGG | | | | GNCAGTCAGT | 60 109 |
| 15 | SEQ ID NO:4801 SEQUENCE LENGTH:147 SEQUENCE TYPE:nucleic TOPOLOGY:linear CLONE:HUMGS05707 | acid | | | | |
| 20 | SEQUENCE DESCRIPTION: GATCAATTCA ATTAGATTAA AAAAGAGTTC TGGAGTTAAG TTTATAATAA AACTATTAAA | CATCGTGAAC | | | | 60 120 147 |
| 25 | SEQ ID NO:4802 SEQUENCE LENGTH:295 SEQUENCE TYPE:nucleic TOPOLOGY:linear CLONE:HUMGS05708 | acid | | | | |
| 30 | SEQUENCE DESCRIPTION: GATCTAATTT AAAATTCATT GGTAGACTTT NCTNATAGTT GGTGACACAC TAAGGNCTGT GACAAGGAAA GCTCATTTGT CCGGTATTTA TTNATTCTGT | TAGTTTTAAT TTACATGGCA TTCTTTTATG | ATAGTTTAGG ATTCCAGCAG AAGGTTAAAG | GTATTACTGG CAACAGGNGG AAGTCTACAG | CTTTTCCCCA CTGGAATTNA CTTGGGCTGG | 180 |
| 35 | SEQ ID NO:4803 SEQUENCE LENGTH:52 SEQUENCE TYPE:nucleic | | IIIIAAIII | Monomarin | | 200 |
| 40 | TOPOLOGY:linear CLONE:HUMGS05709 SEQUENCE DESCRIPTION: GATCATGCCA CTGTCCTCCA | | AGAGTGAGAT | TCTGTCTCCA | AA | 52 |
| 45 | SEQ ID NO:4804 SEQUENCE LENGTH:374 SEQUENCE TYPE:nucleic | | - | | | |
| 50 | TOPOLOGY: linear CLONE: HUMGS05710 | actu | | | | |

| | GATCAGATGG GGACACACAA | CCCCTGGATA | TGTTTCATTG | TCAGATTTTG | TGCTGNNATT | 60 |
|----|---|------------|--------------|--------------|---------------|-----|
| | TTAAGAATGG AATGGTGGGT | ATCTTTCCTT | TTTTTTAATG | TATCTTAACT | GTTGCCTGTC | 120 |
| | AGTGNNNACA AACTAGTGCG | TTGACGGCAC | CGTGTCCAAG | TTTTTAGAAC | CCTTGTTAGC | 180 |
| 5 | CAGACCGAGG TGTCCTGGTC | ACCGTTTCAC | CATCATGCTT | TGATGTTCCC | CTGTCTTTCC | 240 |
| | CTCTTCTGCT CTCAAGAGCA | AAGGTTAATT | TAAGGACAAA | GATGAAGTCA | CTGTAAACTA | 300 |
| | ATCTGTCATN GTTTTTACCT | NCCTTTTCTT | NTTTNAGNGC | AGAGGTTAAA | AGTAAGTATN | 360 |
| | AAGCACCCGT GAAA | | | | | 374 |
| 10 | | | | | | |
| 10 | SEQ ID NO:4805 | | | | | |
| | SEQUENCE LENGTH: 123 | | | | | |
| | SEQUENCE TYPE: nucleic | acid | | | | |
| | TOPOLOGY: linear | | | | | |
| 15 | CLONE: HUMGS05711 | | | | | |
| | SEQUENCE DESCRIPTION: | | | | | |
| | GATCTGACTG TGGAAACATC | CTCTCACTTG | CATTCTTTTA | ACTTAAAACT | ATTTAAGAAC | 60 |
| | TGATGTTCCG ATTATTGTAT | | | | | |
| | AAA | | 700001007001 | 110010011100 | 1111010000110 | 123 |
| 20 | | | | | | 120 |
| | SEQ ID NO:4806 | | | | | |
| | SEQUENCE LENGTH: 299 | | | | | |
| | SEQUENCE TYPE:nucleic | acid | | | | |
| 25 | TOPOLOGY: linear | acru | | | | |
| | CLONE: HUMGS05714 | | | | | |
| | SEQUENCE DESCRIPTION: | | | | | |
| | GATCAAACAG GAAATTGAAA | CCCACTCNAA | CTATCCACCA | ጥጥጥር ል ርጥጥጥጥ | C4TTT444C4 | 60 |
| 00 | CTTAGTTCAG AAACCTTAAA | | | | | |
| 30 | TCTGTAANAT AATTGGAATG | | | | | |
| | TGCGGTTNGT CTGCATCTTG | | | | | |
| | ACGNGATAAT GGCATGGTTT | | | | | - |
| | ACUNUALIANI UUCAIGUIII | CATATGINAC | IACITIUUAC | CAGIGITIE | ANNAIGGNN | 299 |
| 35 | CEO ID NO. 4007 | | | | • | |
| | SEQ ID NO:4807 SEQUENCE LENGTH:204 | | 4 | | | |
| | • | | | • | | |
| | SEQUENCE TYPE:nucleic TOPOLOGY:linear | acid | | | | |
| 40 | | | | | | |
| 40 | CLONE: HUMGS05715 | | | | | |
| | SEQUENCE DESCRIPTION: | | | | | |
| | GATCTGGACA AATGACAGTA | | | | | |
| | TTGTAACTCC TAAGGNTACT | | | | | |
| 45 | TTTGTGCCTA ATAACTNATT | | ACCNAGTAAA | ANCCTTGCGC | CANGTGTGAN | |
| | AACGTAAAGC TANTTAATCC | ATNN | | | • | 204 |
| | ama In 110 (222 | | | | | |
| | SEQ ID NO:4808 | | | | | |
| 50 | SEQUENCE LENGTH: 348 | | | | | |
| 50 | SEQUENCE TYPE: nucleic | acid | | | | |
| | TOPOLOGY:linear | | | | | |

| | CLONE: HUMGS05716 | | | | | |
|----|---|------------|--------------|------------|---|-----|
| | SEQUENCE DESCRIPTION: | | maga . amamm | 0000101010 | A C C T T C T C T C T C T C T C T C T C | ~~ |
| 5 | GATCAAGCGA CCTTGAGAGC | | | | | |
| 3 | TCTCTTGTGT GTGCCTCAGC | | | | | |
| | AGCTGGGAGT CTTCCCACAT ATTTGAAAAT GGNACTTTGG | _ | | | | |
| | | | | | | |
| | TCANTTAGGC TTTTGTCATT CANNTTGNGT ATGACAATTN | | | | ICCITITANA | 348 |
| 10 | CANNITUNGI ATUACAATIN | CCICAGGALI | INUUUITAAUN | CITCCOAN | | 340 |
| | SEQ ID NO:4809 | | | | | |
| | SEQUENCE LENGTH: 287 | | | | | |
| | SEQUENCE TYPE:nucleic | acid | | | | |
| 15 | TOPOLOGY: linear | acra | | | | |
| | CLONE: HUMGS05718 | | | | | |
| | SEQUENCE DESCRIPTION: | | | | | |
| | GATCCTCCTG CAGACCACGC | CCGTCCTGCC | TGTGGCGCCG | TCTCCAGGGG | CTGCTTCCTC | 60 |
| 20 | CTGGAAATTG ACGAGGGGTG | | | | | |
| 20 | AGGTTCTCCG TTAGCTCCTA | | | | | |
| | TCCAAAGAGT GATAGTCTTT | | | | | |
| | CTGTACAGTA GATTTTCCAA | | | | | 287 |
| | 0.00.00.00.00.00.00.00.00.00.00.00.00.0 | | V | | | |
| 25 | SEQ ID NO:4810 | | | | | |
| | SEQUENCE LENGTH: 342 | | | | | |
| | SEQUENCE TYPE:nucleic | acid | | | | |
| | TOPOLOGY: linear | | | | | |
| 30 | CLONE: HUMGS05719 | | | | | |
| | SEQUENCE DESCRIPTION: | | | | | |
| | GATCACCACC CCGAGCCCTC | TNATCCTCTA | TGGNTTCACT | CCCATCATGA | TTTGGAATTA | 60 |
| | TTTATTTGTG AACTTGATTA | GCCGAGATTG | TAAATNACAT | GAGGTCAGGG | ACTGGACTGG | 120 |
| 25 | GTATGTTTTC TTCTCTGTTG | CTTTCCTGGC | ATGAAGTACA | GTAAATACAG | CACCTGATAC | 180 |
| 35 | ATTATACATG GCCACAAATA | TTTGTTGAAT | GAATGANTAA | AAGCACATTG | GGTTCTGACC | 240 |
| | ATTCAGTGTC CCTGNAANGA | ATGCAGTTTT | TCAAACTTGT | GCNTCACCAT | CCATTAGCGG | 300 |
| | GNGTGTGAAT CCAATTTAGG | TNGGTGATGT | CTAGCATTNN | AN | | 342 |
| | | | | | | |
| 40 | SEQ ID NO:4811 | | | | | |
| | SEQUENCE LENGTH: 299 | | | | | |
| | SEQUENCE TYPE: nucleic | acid · | | | | |
| | TOPOLOGY:linear | | | | | |
| 45 | CLONE: HUMGS05720 | | | | | |
| | SEQUENCE DESCRIPTION: | | | | | |
| | GATCATTAAC CAGAGTACCT | | | | | |
| | TATTTAAAAC AAGCTTATGC | | | | | |
| 50 | TAGTATTGGG AAAATGTTGA | | | | | |
| 50 | TAGGCTCTGA AACATCTTGT | | | | | |
| | TGTCTTTCTC TGAAAAACAC | ANCGTTCTTA | GACTGNNANG | CCANTTATAA | CNTAANNCN | 299 |

| | SEQ ID NO:4812 |
|----|---|
| | SEQUENCE LENGTH: 310 SEQUENCE TYPE: nucleic acid |
| 5 | TOPOLOGY: linear |
| | CLONE: HUMGS05721 |
| | SEQUENCE DESCRIPTION: |
| | GATCTTNATG CCCAACATTG GTTATGGAAG CAACAAAAAA ACAAAGCACA TGCTGCCCAG 6 |
| 10 | TGGCTTCCGG AAGTNCCTGG TCCACAACGT CAAGGAGCTG GAAGTGCTGC TGATGTGCAA 120 |
| | CAAATCTTAC TGTGCCGAGA TTGCTCACAA TNTTNNGNTC CAAGANCCGC AAAGCCATCG 180 |
| | TGGAAAGAGC TGCCCAACTG GCCATCAGAG TCACCAACCC CAATGCCAGG CTGCGCAGTG 240 |
| | AAGAAAATGA GTAGGCAGCT CATGTGCACG TTTTCTGTTT AANTAANTGT AAAANCTGCC 300 |
| 15 | ANANAAANTN 310 |
| 15 | |
| | SEQ ID NO:4813 |
| | SEQUENCE LENGTH: 63 |
| | SEQUENCE TYPE:nucleic acid TOPOLOGY:linear |
| 20 | CLONE: HUMGS05722 |
| | SEQUENCE DESCRIPTION: |
| | GATCCCTTTT CTTTTGATGG ACCAGAAATN ATGGGTTGTA CAGGGTGCCA GATAGATTGG 60 |
| | AAA 63 |
| 25 | |
| | SEQ ID NO:4814 |
| | SEQUENCE LENGTH: 127 |
| | SEQUENCE TYPE:nucleic acid |
| 30 | TOPOLOGY: linear |
| | CLONE: HUMGS05723 |
| | SEQUENCE DESCRIPTION: |
| | GATCCCAGTG CTCTACTGGG GGATGAGAGA AAGGCATTTT ATAGCCTGGG CATAAGTGAA 60 |
| 35 | ATCAGCAGAG CTCTGGGTGG ATGTGTAGAA GGCACTTCAA AATGCATAAN CCTGTTACAA 120 |
| | TGTTAAA 127 |
| | SEQ ID NO:4815 |
| | SEQUENCE LENGTH: 350 |
| 40 | SEQUENCE TYPE:nucleic acid |
| | TOPOLOGY: linear |
| | CLONE: HUMGS05724 |
| | SEQUENCE DESCRIPTION: |
| 45 | GATCGAATAC AGATGACCCT GCTGTCGTGT CTTCATTTGT AAAATNCTCC TACAAATGGA 60 |
| | GACATTGAAG GATTATGTGT ATGGAAATNT TTACAAAATT CCTTTCTGTA CCTATTCTGT 120 |
| | AGATGCCTGT ATAATCGGNC TGGATGTACA GCTATAAATG TGTTGTGAGA GCAAGAGAGA 180 |
| | GAGAATGGGT AGAGCCTGCT GTACCTTTTT CCTTTTAAAT TCTTCGAGTT GGTAAATGAG 240 |
| 50 | TAAGATATTG GAAACCTTAA TGNAAAGCTG CTGTTCATGN TTTGTGTGTA TAGTGAGCTG 300 |
| 50 | CCTGTAGTAT TTNNCTATTG TCTGNTAAAA AAAGNAAANC CTGTAAAACN 350 |

| 5 | SEQ ID NO:4816 SEQUENCE LENGTH:178 SEQUENCE TYPE:nucleic TOPOLOGY:linear CLONE:HUMGS05725 SEQUENCE DESCRIPTION: | | | | | |
|----|---|------------|------------|------------|------------|------------------|
| 10 | GATCTTGAAC AAAGNCACTT GTACCAGATT ATCTCTGAAA AATTCAAGCA ATATTCACTT | TCACTNCAAG | GTTTAATATA | TATANTTATC | AATATTTTAA | 60 120 178 |
| | SEQ ID NO:4817 SEQUENCE LENGTH:123 | | | | | |
| 15 | SEQUENCE TYPE:nucleic TOPOLOGY:linear CLONE:HUMGS05726 SEQUENCE DESCRIPTION: | acid | · | | | |
| 20 | GATCGAATCG GGACATNATG CCACTTCACT GTGAGGGGAA AAA | | | | | 60 120 123 |
| 25 | SEQ ID NO:4818 SEQUENCE LENGTH:61 SEQUENCE TYPE:nucleic TOPOLOGY:linear CLONE:HUMGS05727 | acid | | | | |
| 30 | SEQUENCE DESCRIPTION: GATCCCAAAT TTGTCCATAG A | CTGAAGTCCA | CCATAAAGTG | GATTTACTTT | TTTTCTTTAA | 60 61 |
| 35 | SEQ ID NO:4819 SEQUENCE LENGTH:292 SEQUENCE TYPE:nucleic TOPOLOGY:linear CLONE:HUMGS05729 | acid | | | | |
| 40 | SEQUENCE DESCRIPTION: GATCTATAGA ATTAGATTTN | NTTATATCTA | AAGAAATATA | TATAAATACA | TAAACGTAGG | 60 |
| | TATGTATAGC ATGANCAGAA AACCTCCTCA AGCTCTTGCC | AATATCTTAG | TTAAGNTTGC | ATCTAAGGTG | GGCGGNGGAT | 180 |
| 45 | GNNGATTGAG GCACTGTCAG CAAACCCCCA TGNCACACAG | | | | | 240 292 |
| | SEQ ID NO:4820 SEQUENCE LENGTH:61 | | | | • | |
| 50 | SEQUENCE TYPE:nucleic | acid | | | | |

| 5 | TOPOLOGY:linear CLONE:HUMGS05730 SEQUENCE DESCRIPTION: GATCCCCCAT ATACTCTGCT A | ACAGCTCCTA | TCATGAAAAA | TAAAATGTTT | GTCTTTGCAA | 60 61 |
|----|--|------------|------------|------------|------------|-----------|
| 10 | SEQ ID NO:4821 SEQUENCE LENGTH:140 SEQUENCE TYPE:nucleic TOPOLOGY:linear CLONE:HUMGS05731 | acid | | | | |
| 15 | SEQUENCE DESCRIPTION: GATCCGNTGG GGTGAAAGCA CGGCATCTTT CCTTGTCGAA AAAGTNATTT TATTGTTAAA | TGATACTGTA | | | | |
| 20 | SEQ ID NO:4822 SEQUENCE LENGTH:309 SEQUENCE TYPE:nucleic TOPOLOGY:linear | acid | | | | |
| 25 | CLONE:HUMGS05732 SEQUENCE DESCRIPTION: GATCTCAATG CTGTCTGGGG TCCAATGTCT GATGTTCCTG AGGTCAGCTT GGTGCTTGAG | CCAAATTCCT | GCCTGATTCT | GGGTCCGTCC | TGACCTCCAA | 120 |
| 30 | CAGCAGCAGC AGCAGCAGCA AGAGAGGCAC TTTCAGGGAC NAAGGNTTN | GCAGCGNCCT | CTCCACTTTN | CCTTNGCCCN | TCTNCTGGGT | 240 |
| 35 | SEQ ID NO:4823 SEQUENCE LENGTH:109 SEQUENCE TYPE:nucleic TOPOLOGY:linear | acid | | | | |
| 40 | CLONE:HUMGS05733 SEQUENCE DESCRIPTION: GATCCTCCTG GCGGCAGTAG GTGCACCAAA CTCTTCACCA | | | | CAGTCTGTCT | 60 109 |
| 45 | SEQ ID NO:4824 SEQUENCE LENGTH:233 SEQUENCE TYPE:nucleic TOPOLOGY:linear | acid | | | | |
| 50 | CLONE: HUMGS05734 SEQUENCE DESCRIPTION: GATCCATTTG GNAGGAAATG | AGAGGGCTGT | NATCAGCTCT | NATTAAGAAA | GGAGATTTCT | 60 |

| 5 | TCATGCTTTC GATTCTGCAT GAAGTNAACT CTGTAATACC TTAATATTTC CCNTCTTAAG | ATAAATAAGA | GTGCTTGTAA | TAAAAGNCTG | TGCACANGGA | |
|----|--|------------|------------|------------|------------|----------|
| | SEQ ID NO:4825 SEQUENCE LENGTH:102 SEQUENCE TYPE:nucleic TOPOLOGY:linear | acid | | | | |
| 10 | CLONE:HUMGS05735 SEQUENCE DESCRIPTION: GATCTGACGT TTTCTACGTA | GCTTTTGTAT | TTNTTTTTT | TTTAAANTTG | AAGGACCACT | 60 |
| 15 | GATGAAGCCC TNCCANACCC | CTCCCGGGTC | TAANAAAACG | TN | | 102 |
| | SEQ ID NO:4826 SEQUENCE LENGTH:277 SEQUENCE TYPE:nucleic | acid | | | | |
| 20 | TOPOLOGY:linear CLONE:HUMGS05736 SEQUENCE DESCRIPTION: | | | | | |
| 25 | GATCAAGAAA TNTCTCTNCT GCCCTCCCAG GACCCTCCAC CAACTATCAA TTNNGGGGAC | TCACTGCTGT | GAGTGCGCCT | CACCAGAACC | AGTTAAGAGA | |
| | NGCACAAGGC CTTAATGGAC CNTGGCTTAG GAGGGTGTCA | ATTGNCTTGT | GAAAACGCAN | | GGTTGGAGAG | |
| 30 | SEQ ID NO:4827 SEQUENCE LENGTH:98 SEQUENCE TYPE:nucleic | acid | | | | |
| 35 | TOPOLOGY:linear CLONE:HUMGS05738 SEQUENCE DESCRIPTION: | | | | | |
| | GATCCCCTCT CCTGCCCAAG TGGCAATCAA TACAGCTTCA | | | CTTCACCCTC | ACCCCCCTCC | 60 98 |
| 40 | SEQ ID NO:4828 SEQUENCE LENGTH:81 SEQUENCE TYPE:nucleic | anid | | | | |
| 45 | TOPOLOGY:linear CLONE:HUMGS05741 | aciu | | | | |
| | SEQUENCE DESCRIPTION: GATCTGGGAT TTTNTTTTA ACTAAAAACT GTTTCTGTAA | | GGAGCTTTTT | TGTTTACAAG | TTCATTAAAA | 60 81 |
| 50 | SEQ ID NO:4829 SEQUENCE LENGTH:234 | | | | | |

| 5 | SEQUENCE TYPE:nucleic TOPOLOGY:linear CLONE:HUMGS05742 SEQUENCE DESCRIPTION: | acid | | | | |
|----|---|------------|------------|------------|-------------|------------|
| · | GATCGATTTC TTTCCTCCAG TTCTCATCAC AGAAGTGATG | | | | | 60 120 |
| 10 | TTAAGTATAA ACAAAAGTTT TTTANTAAAA NGGGGCCTTC | | | | | 180 234 |
| | SEQ ID NO:4830 | | | | | |
| | SEQUENCE LENGTH: 130 | | | | | |
| 15 | SEQUENCE TYPE: nucleic | acid | | | | |
| 13 | TOPOLOGY:linear CLONE:HUMGS05743 | | | | | |
| | SEQUENCE DESCRIPTION: | | | | | |
| | GATCCACCCA CCTCAGCCTC | CCAAAGTNCT | GGGATTACAG | NCATGAGCCA | CCATGCTCAG | 60 |
| 20 | NCGTGTGTGT NTGTGTGTAT | TATTTATATG | TATATGCATA | CTATATACAT | NTATATATAC | 120 |
| | ACTATATAAA | | | | | 130 |
| | SEQ ID NO:4831 | | | | | |
| | SEQUENCE LENGTH: 103 | | | | | |
| 25 | SEQUENCE TYPE:nucleic | acid | | | | |
| | TOPOLOGY: linear | | | | | |
| | CLONE: HUMGS05747 | | | | | |
| 30 | SEQUENCE DESCRIPTION: GATCTTTAAT CAAGCACTAT | GTTAATACTG | TAATATCAGA | ATACTATGTT | GCATTATTTA | 60 |
| | AAATGTTCAA ATTGAATAGN | | | | JONI IMITIA | 103 |
| | | | | | | |
| | SEQ ID NO:4832 | | | | | |
| 35 | SEQUENCE LENGTH: 325 SEQUENCE TYPE: nucleic | | | | | |
| | TOPOLOGY: linear | aciu | | | | |
| | CLONE: HUMGS05748 | | | | | |
| 0- | SEQUENCE DESCRIPTION: | | | | | |
| 40 | GATCCTTGGT GCTGTGTGCC | | | | | 60 |
| | GTGTCCCGCG GTGCTGACTG CACAGGGACC AGGGCCACCG | | | | | |
| | TTCTCCACAC TCCACTGACA | | | | | |
| 45 | TCAAGCACAA CCNACCACAA | | | | | |
| | GTGCTAACGT CTNACTAATT | TTAAN | | | | 325 |
| | SEQ ID NO:4833 | | | | | |
| | SEQUENCE LENGTH: 212 | | | | | |
| 50 | SEQUENCE TYPE:nucleic | acid | | | | |
| | TOPOLOGY: linear | | | | | |

| 5 | CLONE:HUMGS05749 SEQUENCE DESCRIPTION: GATCTGAAGA GAAGCCAGAG TTACAATTAG NGGAATATAG GTNCATTGTT TCTGTGNGAN CTGNGGAATT CATGCTTGTN | GCTTCTGTGA ACTGTAATGC | GCTAGCCTGG TGTTTCTAAA | AAGCAAACAT | AATCATTATT | 120 |
|----|--|--------------------------|--------------------------|------------|------------|------------------|
| 10 | SEQ ID NO:4834 SEQUENCE LENGTH:284 SEQUENCE TYPE:nucleic | acid | | | | |
| 15 | TOPOLOGY:linear CLONE:HUMGS05751 SEQUENCE DESCRIPTION: GATCTGGCCT TATGCCCAGG AGGAGTTGGG GGAAGGAGAG | AGCCCCAAAT | AAACACAACC | TGAGACCCCA | AAGTTTTAAG | |
| 20 | GTGNAAAANG NACCAAAGAC NGGCCAAGGC GGGAGGACTG NCACCTCATT TTTACTACAA | CTTGAGGCCA | GAAGTTGGNG | ACCATGCCTG | | |
| 25 | SEQ ID NO:4835 SEQUENCE LENGTH:60 SEQUENCE TYPE:nucleic TOPOLOGY:linear CLONE:HUMGS05752 | acid | | · | | |
| 30 | SEQUENCE DESCRIPTION: GATCCTACTG ATGAAATTCC | CACTAAAAAG | TCAAAGAAGC | ATAAAAAGCA | CAAAAACAAA | 60 |
| 35 | SEQ ID NO:4836 SEQUENCE LENGTH:144 SEQUENCE TYPE:nucleic TOPOLOGY:linear CLONE:HUMGS05754 SEQUENCE DESCRIPTION: | acid | | | | |
| 40 | GATCAAAAAA TTGAATGATA TGGCTTCACC TTGTACTGCA AGCTAAAGTN CTGAAATATG | AGATGAATTT | | | | 60 120 144 |
| 45 | SEQ ID NO:4837 SEQUENCE LENGTH:138 SEQUENCE TYPE:nucleic TOPOLOGY:linear CLONE:HUMGS05755 SEQUENCE DESCRIPTION: | acid | | | | |
| 50 | GATCACAATG ANGGCCAAGC TTTCAAAGGC CAGGACCCTG | | | | | |

| | ATATTTNACA TCCTTAAA | | | | | 138 |
|-----|---|--------------------------|------------|------------|------------|------------------|
| 5 . | SEQ ID NO:4838 SEQUENCE LENGTH:84 SEQUENCE TYPE:nucleic TOPOLOGY:linear | acid | | | | |
| 10 | CLONE:HUMGS05756 SEQUENCE DESCRIPTION: GATCTTGTTC ACATCTTGCT AATAAATTTT GAATGAACTC | | TTCTCATTGC | TGAGCACACA | GTTGCAGCTC | 60 84 |
| 15 | SEQ ID NO:4839 SEQUENCE LENGTH:114 SEQUENCE TYPE:nucleic TOPOLOGY:linear | acid | | | | |
| 20 | CLONE:HUMGS05757 SEQUENCE DESCRIPTION: GATCACCTNA TGGATGTCGC GAGCTGGGGT GCTTTGAAGA | | | | | 60 114 |
| 25 | SEQ ID NO:4840 SEQUENCE LENGTH:323 SEQUENCE TYPE:nucleic TOPOLOGY:linear | acid | | | | |
| 30 | CLONE:HUMGS05758 SEQUENCE DESCRIPTION: GATCTGCACT ATNAACTTTG GTAGCTTTGA TAACATCAAA | | | | | 60 120 |
| 35 | TGTGCCCTAG CAGAGGAAAA CACTGATTCA GCACTAGTTT GCGCTTTTNT TANTNGTNGT TATCATTAAA ANTTTTNAN | CCGGCTGTGA CCTAATGANA | AAACTCATCT | TTCATTTTTN | CCGTGGNTNG | 240 |
| 40 | SEQ ID NO:4841 SEQUENCE LENGTH:121 SEQUENCE TYPE:nucleic TOPOLOGY:linear | acid | | | | |
| 45 | CLONE:HUMGS05759 SEQUENCE DESCRIPTION: GATCAAAAAA ACGTTCTTTG GAAAGTNCTC AAGGNGANGG N | | | | | 60 120 121 |
| 50 | SEQ ID NO:4842 SEQUENCE LENGTH:351 | | | | | |

| 5 | SEQUENCE TYPE:nucleic TOPOLOGY:linear CLONE:HUMGS05763 SEQUENCE DESCRIPTION: | | | | | |
|-----|---|---------------------|------------|---------------------|------------|-----|
| | GATCTTCACC AGCTGCTCGT | | | | | |
| | CTGTCAAGAG ANCGATGGCT | | | | | |
| | CAGCAGCAAA AATGTGTGAA | | - | | | |
| 10 | TGGGCAAACT GTAGCCACAT ATAGGTAATT TCTATCACAA | | · · | | | |
| | TGTTTATATG ATATTCAGTA | | | | | 351 |
| | | | V011 | | • | - |
| | SEQ ID NO:4843 | | | | | |
| 15 | SEQUENCE LENGTH: 71 | | | | | |
| | SEQUENCE TYPE:nucleic | acid | | | | |
| | TOPOLOGY: linear | | | | | |
| | CLONE: HUMGS05765 | | | | | |
| 20 | SEQUENCE DESCRIPTION: GATCTGAATT TCCCCATGCT | ፐርር ፐርር ፐር ፐ | NATATETTT | TTCACAAATA | AAGCTGATTT | 60 |
| | AAATCTCTAA A | icolddilli | MAIAIGITIC | TIGNOMATA | ANGOTUNTET | 71 |
| | | | | | | |
| oc. | SEQ ID NO:4844 | | | | | |
| 25 | SEQUENCE LENGTH: 111 | | | | | |
| | SEQUENCE TYPE:nucleic | acid | | | | |
| | TOPOLOGY: linear | | | | | |
| | CLONE: HUMGS05767 | | | | | |
| 30 | SEQUENCE DESCRIPTION: | **************** | #110#0001# | ጥጥብምጥብርጥ ር ል | T111T1TCC | e o |
| | GATCTTTTC TTTATCTCCC ATTATTCACA CTTTCAAACT | | | | | 111 |
| | ATTATIONEA CITTOANACT | GIGIAIIIIC | IIACAAIAAA | AAAIUAIUAA | n. | 111 |
| 05 | SEQ ID NO:4845 | | | | | |
| 35 | SEQUENCE LENGTH: 202 | | | | | |
| | SEQUENCE TYPE:nucleic | acid | | | | |
| | TOPOLOGY: linear | | | | | |
| | CLONE: HUMGS05768 | | | | | |
| 40 | SEQUENCE DESCRIPTION: | | | | | |
| | GATCTCACCA CCCACCTGGC | | | | | |
| | GTAGGCCAGC TCCTCCTTGA | | | | | |
| | CAGCTCATCC AGCACCCTGC | | ICCCCATGCT | 1001100016 | AIUACAAIAA | 202 |
| 45 | AGCTTGTTGA CTCAGCTATA | W. | | | | 202 |
| | SEQ ID NO:4846 | | | | | |
| | SEQUENCE LENGTH: 262 | | | | | |
| | SEQUENCE TYPE:nucleic | acid | | | | |
| 50 | TOPOLOGY:linear | | | | | |
| | CLONE: HUMGS05769 | | | | | |

| 5 | SEQUENCE DESCRIPTION: GATCANAACC CTAGCGCCTT CTGCCAGGGC CCACAGCGTG TCGCAGGGTT GGGGCGGGGG GGCTTTNTGG CCGTCCAAGT | GCCCTAGCCC CTGATACTCC GCCAATTGGG | TCCCCTCCCC TNGGNCCCTC | GGAATGTAGA CCTACCCTGC | ACGGGGACCC CCTGTGTGTT | 180 |
|----|--|--|--------------------------|--------------------------|--------------------------|-----|
| 10 | CTNTGTNCTT GGAGGTGNGN SEQ ID NO:4847 SEQUENCE LENGTH:250 SEQUENCE TYPE:nucleic | | | | | 202 |
| 15 | TOPOLOGY:linear CLONE:HUMGS05770 SEQUENCE DESCRIPTION: GATCTGTATG TNAGGCACCC GTTTTCTCTG CCTGGCTCTC | TCTTCCCCTC | CTTACCTGGC | CAGTCCTGTT | TATCATCAGG | 120 |
| 20 | CCTTGTNTTG GATATNACGT CATTACCGGN TCTCATAGNA GNACTNAATN | | | | | |
| 25 | SEQ ID NO:4848 SEQUENCE LENGTH:227 SEQUENCE TYPE:nucleic TOPOLOGY:linear CLONE:HUMGS05772 | acid | | | | |
| 30 | SEQUENCE DESCRIPTION: GATCATTCTT CAATTAGGAC CTGACCATGG ATACCCATCA CCCATTTCTT GANGATAAAA AATATTAATT TCCACTAAAA | CTTTGGCATT AAATTGTNAT | CAGTGCTACA TCAAATTGTT | TGTGTATTTN ATGCACAGAA | ATATAAAANT | 120 |
| 35 | SEQ ID NO:4849 SEQUENCE LENGTH:231 | | | | | |
| 40 | SEQUENCE TYPE:nucleic TOPOLOGY:linear CLONE:HUMGS05773 SEQUENCE DESCRIPTION: | | 0.1505.1.1.1.0 | | ACAAAATCTT | 60 |
| 45 | GATCTAAATA TAAGAGCAAA AGTGCCTTTT GTNCTGGCCA GAAACAATTT TAAATTTTNC GCAANATATA TNTCTGACAA | AGATTTTTTA TTTATCAAAA | AAGAGGACAT TTAAAAGCCA | AGAAGTCAGG TAGACCGGGA | AACTATAAAA TAANNCATTT | 120 |
| 50 | SEQ ID NO:4850 SEQUENCE LENGTH:128 SEQUENCE TYPE:nucleic TOPOLOGY:linear | acid | | | | |

| 5 | CLONE:HUMGS05774 SEQUENCE DESCRIPTION: GATCAGCCTG AACAACATAA TGTGGTGGCA TATGCCTGTA GTGACAAA | | | | | 60 120 128 |
|----|--|--------------------------|--------------------------|--------------------------|--------------------------|------------------|
| 10 | SEQ ID NO:4851 SEQUENCE LENGTH:350 SEQUENCE TYPE:nucleic TOPOLOGY:linear | acid | | | | |
| 15 | CLONE: HUNGS05775 SEQUENCE DESCRIPTION: GATCCTTCCT TCAACCCCAA CTTGCAGGGA AGCATCTGTC GGGTGTTCAC CCATCCCACC | TTGTCATTCC | AGGTGCCAGA | ATCCTCTCAG | AGTCATTGAA | |
| 20 | GAGGGCTGGG GGCATCCAGG TGGAGGGGGC AGAAGAAGA NGCATTTAGC TCTGGNGGGT | CACTCAGAAG AAGAAACCTC | GCAAAGGAAC ATCCTATATT | CACCCTACCC TTNCAAAGCA | ATTTGGCCTC | 240 |
| 25 | SEQ ID NO:4852 SEQUENCE LENGTH:355 SEQUENCE TYPE:nucleic TOPOLOGY:linear | acid | | | | |
| 30 | CLONE: HUNGS05776 SEQUENCE DESCRIPTION: GATCTCAGTT TCCCTCACTC ATNACTGAGT GGCCTGTACT CTCCCTCACA GTTCCAGGAG | GTCAGACGTG CGGCTTCCCT | AATGGGCCTG CGTCTCCCCT | ACGGGCAAAT TACTCCACAG | CCATCCCTCT GGAGCCTCCC | 120 180 |
| 35 | TTGCCAGGAC CAGGGCTGCG CCAGTGCTGT CCNCAGGCTG CTTGAAGGAN GGTGGTTCAA | CAGTTCTGGT | CCNNGGGGTG | TNAGGGTAGG | GAAGGGTGCA | |
| 40 | SEQ ID NO:4853 SEQUENCE LENGTH:81 SEQUENCE TYPE:nucleic TOPOLOGY:linear CLONE:HUMGS05777 | acid | | | | |
| 45 | SEQUENCE DESCRIPTION: GATCCAGGAG TTTAAGGTTA AGAACAAGAC CCTGTTTCAA | CAGTGAGCTA | TGACCGCTAC | TNCACTCCAG | CCCAGNCAAC | 60 81 |
| 50 | SEQ ID NO:4854 SEQUENCE LENGTH:136 SEQUENCE TYPE:nucleic TOPOLOGY:linear | acid | | | | |

| 5 | CLONE: HUMGSO5778 SEQUENCE DESCRIPTION: GATCCTCCGT AACATTNCNA GGCCCCGGGG CCTCCAGCGG ACGATTAAAG ACTGAN | | | | | |
|----|---|--------------------------|--------------------------|--------------------------|--------------------------|------------|
| 10 | SEQ ID NO:4855 SEQUENCE LENGTH:108 SEQUENCE TYPE:nucleic TOPOLOGY:linear CLONE:HUMGS05779 | acid | | | | |
| 15 | SEQUENCE DESCRIPTION: GATCAAATAT TTTTNATTAA GATTTAATAA AATAGATTGC | | | | CAATACATAT | 60 108 |
| 20 | SEQ ID NO:4856 SEQUENCE LENGTH:362 SEQUENCE TYPE:nucleic TOPOLOGY:linear CLONE:HUMGS05780 | acid | | | | |
| 25 | SEQUENCE DESCRIPTION: GATCAACCTC TGATTTTACA NATTAATTTC TTGCCTCCAG CTGCTCCTTT NCATTGCAGA | TGTTCTATCT | CTGAGGCTGA | GCATTATAAG | AAAATNACCT | 120 |
| 30 | TNCCACTGGC TCTNAAACTC ATCCATGAAA GNACAAGTGG ATGGATTTCC TGGTGCTCTT TN | TCTAACTTAT ACTAGTNCTA | ANGTGTTGGT TGNNGTACAA | GAACCCNCAC AGGCCTGTAT | CCAGGCAGTT CNTCTTGTNG | 240 300 |
| 35 | SEQ ID NO:4857 SEQUENCE LENGTH:102 SEQUENCE TYPE:nucleic | acid | | | | |
| 40 | TOPOLOGY:linear CLONE:HUMGS05781 SEQUENCE DESCRIPTION: GATCCTACCG GAAACCAACC TGTATATTGG CTTCTTTTAA | | | | CTTTATATCC | 60 102 |
| 45 | SEQ ID NO:4858 SEQUENCE LENGTH:195 SEQUENCE TYPE:nucleic TOPOLOGY:linear | acid | | | | |
| 50 | CLONE:HUMGS05782 SEQUENCE DESCRIPTION: GATCTAAACT TTATGCTGCA | TAAATCACTT | ATCGGAAATN | CACATTTCAT | AGTGTGAAGC | . 60 |

| | ACTCAANNTN TAAACCTTAT | | | | | |
|----|-----------------------|----------------------|---------------------|------------|---|-----|
| | GAGTAAGTAA AGCATATTAG | AATAATTGTG | GGTTGACAGA | TAAAAT | AGANTTTAGA | 180 |
| | GTATTTGGGG TTTTN | | | | | 195 |
| 5 | | | | | | |
| | SEQ ID NO:4859 | | | | | |
| | SEQUENCE LENGTH:210 | | | | | |
| | SEQUENCE TYPE:nucleic | acid | | | | |
| 10 | TOPOLOGY:linear | | | | | |
| 70 | CLONE: HUMGS05783 | | | | | |
| | SEQUENCE DESCRIPTION: | | | | | |
| | GATCCCTTTG AAATNTTTTT | TTTGTTTGTT | TGTTTAAATC | AAGCCTGAGG | CTGGTGAACA | 60 |
| | GTAGCTACAC ACCCATATTG | TGTGTTCTGT | GAATGCTAGC | TCTCTNGAAT | TTGGATATTG | 120 |
| 15 | GTTATTTTTT ATAGAGTGTA | AACCAAGTTT | TATATTCTGC | AATGCGANCA | GGTACCTATC | 180 |
| | TGTTTCTAAA TAAANCTGTT | | | | | 210 |
| | | | | | | |
| • | SEQ ID NO:4860 | | | | | |
| 20 | SEQUENCE LENGTH: 139 | | | | | |
| 20 | SEQUENCE TYPE:nucleic | acid | | | | |
| | TOPOLOGY: linear | acru | | | | |
| | CLONE: HUMGS05784 | | | | | |
| | SEQUENCE DESCRIPTION: | | | | | |
| 25 | GATCTTTGTT TGTCTGAACA | ርርጥ 4 ጥጥጥ ጥ 4 | ተ ልሮ ልጥርሮጥጥጥ | TTCTAAACCA | * | 60 |
| | AATTTCTTCA GGTTTTCTAA | | | | | |
| | ANTTATTTAA TGTTTTAAA | CAIGCIIACC | ACTUUGGTAC | IGIAAAIGNG | AAAAGNATAA | |
| | ANIIAIIIAA IGIIIIAAA | | | | | 139 |
| | SEQ ID NO:4861 | | | • | • | |
| 30 | SEQUENCE LENGTH: 150 | | | | | |
| | SEQUENCE TYPE:nucleic | | | | | |
| | TOPOLOGY: linear | aciu | | | | |
| | | | | | | |
| 35 | CLONE: HUMGS05785 | | | | | |
| | SEQUENCE DESCRIPTION: | T 0000101010 | .00.00000.0 | | TOTO 1 TO 1 1 1 | 00 |
| | GATCCTGAAA GAATAATTGG | • | | | | |
| | TGGAAAGNTT CAGATGNGGC | | CIGGUGAAAG | AGGCAAATAI | GANGIGICCI | |
| 40 | CAAATTGTAA TTGCTTTTTA | TGNNGNGNGN | | • | | 150 |
| 40 | 000 ID NO 1000 | | | | • | |
| | SEQ ID NO:4862 | | | | | |
| | SEQUENCE LENGTH: 155 | | | | • | |
| | SEQUENCE TYPE:nucleic | acid | | • | | |
| 45 | TOPOLOGY: linear | | | | | • |
| | CLONE: HUMGS05787 | | • | | | |
| | SEQUENCE DESCRIPTION: | | | | | |
| | GATCGCAGAT TININTAGAA | | | | | |
| | AAAATAATTA AAAATAGTCC | TGCCTGAGGT | TGCAGTGAGC | CGAGCTTGCA | CTACTGCACT | 120 |
| 50 | CCAGCCTGGG TGACAGAGTA | AGACTCCATG | TCAAA | | | 155 |

| 5 | SEQ ID NO:4863 SEQUENCE LENGTH:262 SEQUENCE TYPE:nucleic acid TOPOLOGY:linear CLONE:HUMGS05789 SEQUENCE DESCRIPTION: GATCTGTACA ACTGATTTTA AAAAAATGCT ACAAAAAGCC CCAAAGCATA TAATCTCTAC 60 |
|----|---|
| 10 | TCCTTACAGT CTCTAGAATT AAATGTACTC ATTTAGACAA CATATTAAAT GCATATTNA 120 GCCACTTTAG AGAAACCTCA TAGGCACAGA GTTTCCAAGN TTAATTTTAA GNATATCTTC 180 ACGAACTTGA CCCTCCTACT CCACATTGCA NCATTTCCNT CAGNCAGCAT TTNAATTCCN 240 GTATTATGTN TNTNGCAANT NN 262 |
| 15 | SEQ ID NO:4864 SEQUENCE LENGTH:232 SEQUENCE TYPE:nucleic acid TOPOLOGY:linear |
| 20 | CLONE:HUMGS05790 SEQUENCE DESCRIPTION: GATCAAGAAG GCCACTGGTG TGCAGGTGTN AGGCTCCTAC AGGCCCACTC TCTTCAGCAG 60 CCACCCGGCC CTCCCTCCAG CACCCGTTTT AATCCCACAG AACAACGGGA ACGTTACTGA 120 |
| 25 | CTCTGGTGCC TTATCTCGAA GGGACCAGAA GTGCTGCGTG TTCAGGCCAT CNNTGGCTGT 180 NTTCCTGTCT CTCCTGTCTG TCCACCTACT ACTNNNTNCT NTACTTTANC NN 232 SEQ ID NO:4865 |
| 30 | SEQUENCE LENGTH:76 SEQUENCE TYPE:nucleic acid TOPOLOGY:linear CLONE:HUMGS05792 SEQUENCE DESCRIPTION: |
| 35 | GATCAGAGCC GACACCAGAC GTGATTAGCA GGCGCACAAN ATTCAATTTG TTAAATGAAA 60 76 SEQ ID NO:4866 |
| 40 | SEQUENCE LENGTH: 80 SEQUENCE TYPE: nucleic acid TOPOLOGY: linear CLONE: HUMGS05793 SEQUENCE DESCRIPTION: |
| 45 | GATCTCTTGG GCCCAGGACT GTTGATGCCT TTNAGTTTTG TATTCAATAA ACTTTTTTTG 60 TCTGTTGATA ATATTTTAAA 80 |
| 50 | SEQ ID NO: 4867 SEQUENCE LENGTH: 149 SEQUENCE TYPE: nucleic acid TOPOLOGY: linear |

| | CLONE: HUMGS05794 | • | | | | |
|----|---|------------|--------------|------------|------------|-----|
| | SEQUENCE DESCRIPTION: | | | | | |
| _ | GATCCATGCA TTATTTTCCT | | | | | |
| 5 | GGTGGGGGGT GAGTCCCACT | | CTGTTGAATA | AAGCAGGCAC | TTGACCTGGC | |
| | TGTAGCCTAG GTCTTGAGTG | AACCCCAAA | | | | 149 |
| | SEQ ID NO:4868 | | | | | |
| 10 | SEQUENCE LENGTH: 209 | | | | | |
| | SEQUENCE TYPE:nucleic | acid | • | | | |
| | TOPOLOGY: linear | | | | | |
| | CLONE: HUMGS05795 | | | | | |
| | SEQUENCE DESCRIPTION: | | | | | |
| 15 | GATCATGTCT GTACATTGTG | | | | | 60 |
| | TTGTAAAAAT AATGTGTGGA | | | | | |
| | GTGTGTGCAA GTGCACATGT | GTGTGTGTAA | TAACACATTG | TAAAGANCAG | AAATNACTTT | |
| | AAAAAATAAA CAGAAATGGA | GACCTGAAA | | | | 209 |
| 20 | | | | | | |
| | SEQ ID NO:4869 | | | | | |
| | SEQUENCE LENGTH: 335 | | | | | |
| | SEQUENCE TYPE:nucleic | acid | | | | |
| 25 | TOPOLOGY:linear | | | | | |
| | CLONE: HUMGS05796 | | | | | |
| | SEQUENCE DESCRIPTION: | • | | | | •• |
| | GATCCGNCCA CCTTGACCTC | | | | | |
| | CCACGCTGTT GGTTCTTAAT | | | | | |
| 30 | ATGAGATTTT ACCTGTATTT | | | | | |
| | CAGTTCTTNG GCTTCTATGC | | | | | |
| | GAAAATATTG GAGTNAGGGT | | | TCTTTMCCCT | MICANIMICI | 335 |
| | TCTGTAATAG TAACCTTNAA | TAACATGNGG | ATTUN | | | 335 |
| 35 | 070 ID NO 4070 | | | | | |
| | SEQ ID NO:4870 | | | | | |
| | SEQUENCE LENGTH:207 SEQUENCE TYPE:nucleic | anid | | | | |
| | TOPOLOGY: linear | acru | | | | |
| 40 | CLONE: HUMGS05797 | | | | | |
| | SEQUENCE DESCRIPTION: | | | | | |
| | GATCTTTCTG CAGGAAATAG | TCACTCATCC | CACTCCACAT | AAGGGGTTTA | GTAAGAGAAG | 60 |
| | TCTGTCTGTC TGATGATGGA | | | | | |
| | ACATTTCTAT GCCAAACAGG | | | | | |
| 45 | TGATAAAATT AATTTTGTTG | | ,21011111010 | | | 207 |
| | . W | | | | | |
| | SEQ ID NO:4871 | | | | | |
| | SEQUENCE LENGTH: 208 | | | | | |
| 50 | SEQUENCE TYPE: nucleic | acid | | | | |
| | TOPOLOGY : Lincon | | | | | |

| | CLONE: HUMGS05798 | | | | | |
|----|------------------------|------------|------------|-------------|-----------------|-----|
| | SEQUENCE DESCRIPTION: | | | | | |
| | GATCTGTCAC GGAAGGCGTC | | | | | 60 |
| 5 | TCCATCCTTG TAGACGCTNC | | | | | |
| | CCGGGAAGGG ACCTTGCAGG | | TCCAAAAAA | GAAAAAAAGA | AAAAGANAGA | |
| | AAAANTAAAT GAGGAAACGT | GTTNCAAA | | | | 208 |
| 10 | SEQ ID NO:4872 | | | | | |
| | SEQUENCE LENGTH:84 | | | | | |
| | SEQUENCE TYPE:nucleic | acid | | | | |
| | TOPOLOGY: linear | | | | | |
| 15 | CLONE: HUMGS05799 | | | | | |
| 13 | SEQUENCE DESCRIPTION: | | G | *********** | TT 4 TC 4 CTC 4 | 60 |
| | GATCAGACCA TAATGTTACA | | CAATAGIGAT | IGATAGAGIG | TIAICAGICA | 84 |
| | TAACTAAATA AAGCTTGCAA | CAAA | | | | 04 |
| 20 | SEQ ID NO:4873 | | | | | |
| | SEQUENCE LENGTH: 337 | | | | | |
| | SEQUENCE TYPE:nucleic | acid | | | | |
| | TOPOLOGY: linear | | | | | |
| 25 | CLONE: HUMGS05801 | | | | | |
| 25 | SEQUENCE DESCRIPTION: | | | | | |
| | GATCCTGGCC GAGGTGAGGA | | | | | |
| | ATTGGGCAAG GCAGGAAACC | | | | | |
| | TCTTCAGGAG GAGACTCCAA | | | | | |
| 30 | CCTGCCATAT CCCCAGTGCC | | | | | |
| | GTTCTCAGCC CNTTGTTCTG | | | CAGINIGGAI | AUTTATTAAA | |
| | CCTNTTTGGA GNCNCAAATA | NAAAAAAANA | AANNAGN | | | 337 |
| 05 | SEQ ID NO:4874 | | | | | |
| 35 | SEQUENCE LENGTH: 329 | | | | | |
| | SEQUENCE TYPE: nucleic | acid | | | | |
| | TOPOLOGY: linear | | | | | |
| | CLONE: HUMGS05804 | | | | | • |
| 40 | SEQUENCE DESCRIPTION: | | | | | |
| | GATCCAGGGG CTGATTGGCA | | | | | |
| | GCAGCAGAAC CAGGAATACA | | | | | |
| | TGCCACCTAC CGCCGGCTGC | | | | | |
| 45 | ACCGGTGACC ACCCGTNAAC | | | | | |
| | AATCTTCTTC CGTGNAGCAN | | GACCAACCGT | TTGAGGGACT | TANGTTACCN | |
| | NGNGCCGGGC CAACCNAAGO | AGGGNNTTN | | | | 329 |
| | SEQ ID NO:4875 | | | | | |
| 50 | SEQUENCE LENGTH: 142 | | | | | |
| | SEQUENCE TYPE: nucleio | : acid | | | | |

| 5 | TOPOLOGY:linear CLONE:HUMGS05807 SEQUENCE DESCRIPTION: GATCACTTGC TTTTATGTCC TTGAGTCATT GCTTTCTGAA AGGAAATATT TTAAAAGCCA | GGAATCATTG | | | | |
|----|---|--------------------------|--------------------------|------------|------------|----------|
| 10 | SEQ ID NO:4876 SEQUENCE LENGTH:331 SEQUENCE TYPE:nucleic TOPOLOGY:linear | acid | | · | | |
| 15 | CLONE:HUMGS05808 SEQUENCE DESCRIPTION: GATCCTNCAG CACAGGAATT TGAACTTNAT ACGTCCGTGT ACTGAATGAA TCCATTGGAG | GTCCCAGATG | CTGTCATTAG | TCTATATGGT | TCTCCAAGAA | 120 |
| 20 | AANCAACGCA TTGCCACGGN TTTCCCTTTT TATGTGGGAT CTATTAAATA TCANCTCTGA | AACATACAGN ATAGTNGTTA | GGATGCCTTT CTTGTGACAN | TCTGTGATTG | GGTGGGATTT | 240 |
| 25 | SEQ ID NO:4877 SEQUENCE LENGTH:61 SEQUENCE TYPE:nucleic TOPOLOGY:linear CLONE:HUMGS05810 | acid | | | · | |
| 30 | SEQUENCE DESCRIPTION: GATCATGCCA TTGCACCCCA A | GCCTGGGCAA | CAACTTAACT | TTTTTGAAAC | TCTGTCTCAA | 60 61 |
| 35 | SEQ ID NO:4878 SEQUENCE LENGTH:81 SEQUENCE TYPE:nucleic TOPOLOGY:linear | acid | | | | |
| 40 | CLONE:HUMGS05813 SEQUENCE DESCRIPTION: GATCCTCTGG ACACGTAACC GCCATTTCCT ACCTGCACAA | | ACTACATGAT | GACTCAAGGC | CAATAATAAN | 60 81 |
| 45 | SEQ ID NO:4879 SEQUENCE LENGTH:102 SEQUENCE TYPE:nucleic TOPOLOGY:linear | acid | | , | | |
| 50 | CLONE:HUMGS05814 SEQUENCE DESCRIPTION: GATCCANAGA GGACCCCCGN | CCCCAGAGAC | TTGGTTTTGG | CTCCAGCCTT | CCCCTGGCCC | . 60 |

| | P. Control of the Con | |
|----|--|------------------------|
| | CGTGACACTC AGGAGTTAAT AAATGCCTTG GAGGAAAACA AA | 102 |
| 5 | SEQ ID NO:4880 SEQUENCE LENGTH:66 SEQUENCE TYPE:nucleic acid TOPOLOGY:linear | |
| 10 | CLONE:HUMGS05815 SEQUENCE DESCRIPTION: GATCAAAAGG TCTCAGATGA TGATAAAGAA AAGGGAGAGG GAGCTCTT TCCAAA | CC AACTGGGAAA 60 |
| 15 | SEQ ID NO:4881 SEQUENCE LENGTH:287 SEQUENCE TYPE:nucleic acid TOPOLOGY:linear | |
| 20 | CLONE: HUMGSO5816 SEQUENCE DESCRIPTION: GATCTCTAGA GTCCATTAAA AGCAAGCTAG ATTGAGAGCT CTTGGAGGG CCTAGCTCAT GGTTTACAGC TCTTGAGGGT GACTGCACAG TGGACTCA | GT CAGTCATGGC 120 |
| 25 | TGAGTTGTGT TGGCTTNATT ATCTCTAGAA TGTAGTTCTC CATTCAAA' TGGNNGGNTC ACCTGTAGTA AAGGGGGTTT CTACCTNGNG GATGGAAAI GNACCTTCCT TGGGCCTCCA GNACTTATTT TNGATATCCC NTTATGN | |
| 30 | SEQ ID NO:4882 SEQUENCE LENGTH:74 SEQUENCE TYPE:nucleic acid TOPOLOGY:linear CLONE:HUMGS05817 | |
| 35 | SEQUENCE DESCRIPTION: GATCATACCA TTGCACTCCA GCCTGAGTGA CCTGACTGAG ACTGTCTCA ANATAAAAAT TAAA | AA AAAGNGTAAA 60 74 |
| 40 | SEQ ID NO:4883 SEQUENCE LENGTH:106 SEQUENCE TYPE:nucleic acid TOPOLOGY:linear CLONE:HUMGS05818 | |
| 45 | SEQUENCE DESCRIPTION: GATCTNACTC CAGCAGAGTC TGTNCCAATN TGGGGTGAGC AGGGCCCC1 GCAGGAATTT NAGGGATGGA GCAGGTTAAA GAATGGGAAA CATAAA | TG CCATGGAGCA 60 |
| 50 | SEQ ID NO:4884 SEQUENCE LENGTH:96 SEQUENCE TYPE:nucleic acid TOPOLOGY:linear | |

| 5 | CLONE: HUMGS05819 SEQUENCE DESCRIPTION: GATCTTAGTG GTGAAAGTAT AAATGTGTAA CTGAGAATAA | | | AAACANGACT | TACAATNCCT | 60 96 |
|----|--|--|--|--------------------------|--------------------------|------------|
| 10 | SEQ ID NO:4885 SEQUENCE LENGTH:63 SEQUENCE TYPE:nucleic TOPOLOGY:linear CLONE:HUMGSO5820 SEQUENCE DESCRIPTION: | | | | | |
| 15 | GATCCNAAGN CTCCGGGCAG AAA | CCGTTATCCC | GTGGTTTAAT | AAAGCTNCCG | CGCGCTCACC | 60 63 |
| 20 | SEQ ID NO:4886 SEQUENCE LENGTH:61 SEQUENCE TYPE:nucleic TOPOLOGY:linear CLONE:HUMGS05821 | acid | | | | |
| 25 | SEQUENCE DESCRIPTION: GATCCTGCTG TGTGTCCTGT A | TCCATGTTCC | GGTTCCATCC | AAATACACTT | TCTGGAACAA | 60 61 |
| 30 | SEQ ID NO:4887 SEQUENCE LENGTH:274 SEQUENCE TYPE:nucleic TOPOLOGY:linear CLONE:HUMGS05823 SEQUENCE DESCRIPTION: | acid | | | | |
| 35 | GATCTCCTTG TCAGGAGCAC ATGACCTCGT GTCAAGATGG CAGNGNGGAG GAAACTCCCA GCTGCACTGT CACTGGGGGN TGNTTTGACT NATNCANGTT | CAGACCTGCA TTNGACATGC TAGGGGTTAT | GAGATGAATT ATCACACTCC TACTCACTGC | TGCCTNGATA ACATATGAAA | CCTGAGTCAC CCCTNCTTTT | 120 180 |
| 40 | IGNITIONALI MAINCANGII | ICAGIAAANG | ICUN | | | 617 |
| 45 | SEQ ID NO:4888 SEQUENCE LENGTH:268 SEQUENCE TYPE:nucleic TOPOLOGY:linear CLONE:HUMGS05824 SEQUENCE DESCRIPTION: | acid | | | | |
| 50 | GATCTGTGTT GGTTTCTTAG TCAAGAGCGC ATGGCTCTGC TTCATGTCCA CCAGATTCTG TTTCCNCCCG GTTATCGGAC | TAATAGTAAA AGAGGTGTCA | TTGTTTTCAG GCAGCACTTT | GGCCTTGTCC TTTTTTNATT | AGCTGAGAGC TGTNGTTNGG | 180 |

| | TTNCTGTAAA GGANNGGTNA | TTTANCCN | | | | 268 |
|----|--|--------------------------|--------------------------|--------------------------|------------|-----------|
| 5 | SEQ ID NO:4889 SEQUENCE LENGTH:323 SEQUENCE TYPE:nucleic TOPOLOGY:linear | acid | | | | |
| 10 | CLONE:HUMGS05825 SEQUENCE DESCRIPTION: GATCAAACTT GGTCTGGGTA TGTAACTGAA GAAATGCCAC | | | | | 60 120 |
| 15 | AGACTAATCT CTGGCTGAGG TATATTTTCA AGGNTGTTTT CAACTACTTT AAGGGGAAGA GGCACTNAAG CAGNGCTAGT | TCTTTATTTT TAAGATTTTC | TGTNAATATT | AAAAGTCTG | TATGGCATGA | 240 |
| 20 | SEQ ID NO:4890 SEQUENCE LENGTH:66 SEQUENCE TYPE:nucleic TOPOLOGY:linear | acid | | | | |
| 25 | CLONE:HUMGS05826 SEQUENCE DESCRIPTION: GATCTAAGAG TATGGCTAAA ATTAAA | CATCTATATA | TGCAATCTAT | TAAAAGAACT | TAATTCGGCT | 60 66 |
| 30 | SEQ ID NO:4891 SEQUENCE LENGTH:89 SEQUENCE TYPE:nucleic TOPOLOGY:linear | acid | | | | |
| 35 | CLONE:HUMGS05827 SEQUENCE DESCRIPTION: GATCTCTGGA GCTCAAGAGG TNGGTGACAG AGCAAGACCC | | AGTGAGCCGA | TGTGCCAGTA | CACTGCAGCN | 60 89 |
| 40 | SEQ ID NO:4892 SEQUENCE LENGTH:344 SEQUENCE TYPE:nucleic | acid | | | | |
| 45 | TOPOLOGY:linear CLONE:HUMGS05829 SEQUENCE DESCRIPTION: GATCGCCACT TACCGCAAGC TGGACCAGTC AACATCTCTN | TTGTCACAAG | CAGTGTTTCC | TCTGGATATG | GCAGTGGCAG | |
| 50 | TGGCTATGGC GGTGGCCTCG AGGTAGCAGT GGAAGCTACT TCAGTGTGGG GTGCTCTTGG NTGGCANTGG CGGNTNTAGC | ACTCCAGCAG CTTCAGTGCA | CAGTGGGGGT AGCAGTAGCC | NTCGGCCTAG NGAGGGCTGG | TNNNNNGGGC | 240 |

| | SEQ ID NO:4893 | | | | | |
|----|------------------------|-------------|------------|------------|------------|-----|
| | SEQUENCE LENGTH: 342 | | | | | |
| | SEQUENCE TYPE: nucleic | acid | | | | |
| 5 | TOPOLOGY: linear | | | | | |
| | CLONE: HUMGS05830 | | | | | |
| | SEQUENCE DESCRIPTION: | | | | | |
| | GATCAGGNAG CCTCCTGATG | CCAGAACACC | TNAGGCAGAG | CCCTACTCAG | CTGTACCTGT | 60 |
| 10 | CTGCCTGGAC TGTCCCCTGT | CCCCGCATCT | CCCCTGGGAC | CANCTGGAGG | GCCACATGCA | 120 |
| | CACACAGCCT AGCTGCCCCC | AGGGAGCTCT | GCTGCCCTTG | NTGGCCCTGC | CCTTCCCACA | 180 |
| | GGTGAGCAGG GCTCCTGTCC | ACCAGNACAC | TNAGTTCTNT | TCCCTGCAGT | GTTTTCATTT | 240 |
| | TATNGGGGNC AAACATTTTG | CCTGTTTTCT | GGTTTCAAAC | ATGATAGTTG | ATATGAGACT | 300 |
| | GAAANCCCTG GGTTGTGGAG | | | | | 342 |
| 15 | | | | | • | |
| | SEQ ID NO:4894 | | | | | |
| | SEQUENCE LENGTH: 138 | | | | | |
| | SEQUENCE TYPE:nucleic | acid | | | | |
| 20 | TOPOLOGY: linear | | | | | |
| | CLONE: HUMGS05831 | • | | | | |
| | SEQUENCE DESCRIPTION: | | | | | |
| | GATCCTGGAC TTTNCCCTCA | GCAAAGATGC | CTCCNTGGTG | GTGACCACGT | CAGGAGACCA | 60 |
| | CAAAGCGAAA NTNTTTNTTT | | | | | 120 |
| 25 | TTGTNTGGTG TTGAGGGN | | | | | 138 |
| | | | | | | |
| | SEQ ID NO:4895 | | | | | |
| | SEQUENCE LENGTH: 109 | | | | | |
| 30 | SEQUENCE TYPE:nucleic | acid | | | | |
| | TOPOLOGY: linear | | | | | |
| | CLONE: HUMGS05832 | | | | | |
| | SEQUENCE DESCRIPTION: | | | | | |
| | GATCCACCCG CCTCAGCCTC | CCAAAGTGCT | GGGATTACAG | GTGGGAGCCA | CAACACCCGG | 60 |
| 35 | CCATGAATTA ACTCCGTTAA | | | | | 109 |
| | | | | | | |
| | SEQ ID NO:4896 | • | | | | |
| | SEQUENCE LENGTH: 274 | | * | | | |
| 40 | SEQUENCE TYPE:nucleic | acid | | | 4 | |
| | TOPOLOGY: linear | | | | | |
| | CLONE: HUMGS05833 | | | | | |
| | SEQUENCE DESCRIPTION: | | | | | |
| 45 | GATCGGTTTC GCCATCATGA | CGCAGTGTCT | CCCAGTGGCC | CTGTTCTCCC | TEGTEGECTT | 60 |
| 45 | CACCCAGATG ACCATNTGGG | | | | | |
| | CTACCCGCCC CTGCGCATGC | | | | | |
| | GGCTCAGCCC CTNAACCCGG | | | | | |
| | ACCCGGAATA AAGCCCGNCT | | | Guddoonon | | 274 |
| 50 | ACCOUNTY AMOUGHOU | account tog | UMM | | | ₩17 |

| | SEQ ID NO:489 | 7 | | | | | |
|----|-----------------|-----------|------------|------------|------------|------------|-----|
| | SEQUENCE LENG | TH:343 | | | | | |
| | SEQUENCE TYPE | :nucleic | acid | | | | |
| 5 | TOPOLOGY: line | ar | | | | | |
| | CLONE: HUMGS05 | 834 | | | | | |
| | SEQUENCE DESC | RIPTION: | | | | | |
| | GATCTTGCTG GA | TGTGAAGA | CGCGGCTGGA | GCAGGAGATT | GCCACCTACC | GCCGCCTGCT | 60 |
| 10 | GGAGGGCGAG GA | TGCCCACC | TTTCCTCCCA | GCAAGCATCT | GGCCAATCCT | ATTCTTCCCG | 120 |
| | CGAGGTCTTC AC | CTCCTCCT | CGTCCTCTTC | GAGCCGTCAG | ACCCGGCCCA | TCCTCAAGGA | 180 |
| | GCAGAGCTCA TO | CAGCTTNA | GCCAGGGCCA | GAGCTCCTAG | AACTGAGCTG | CCTCTACCAN | 240 |
| | AGCCTNCTGC CC. | ACCAGCTG | GCCTCACCTC | CTGAAGGNCC | GGGTCAGGAC | CCTGCTCTNC | 300 |
| | TGGNGNAGTT TC | CCAGGTAT | NTTCNNTGGT | TCCTGTTGGT | GAN | | 343 |
| 15 | | | | | | | |
| | SEQ ID NO:489 | 8 | | | | | |
| | SEQUENCE LENG | TH: 338 | | | | | |
| | SEQUENCE TYPE | :nucleic | acid | | | | |
| 20 | TOPOLOGY: line | ar | | | | | |
| | CLONE: HUMGS 05 | 835 | | | | | |
| | SEQUENCE DESC | RIPTION: | | | | | |
| | GATCAGNAGC CC | CCAACACA | GGCAAGTCCA | CCCCATAATA | ACCCTGCCAG | TGCCAGGGTG | 60 |
| | GGCTGGGGAC TC | TGGCACAG | TGATGCCGGG | CGCCAGGACA | GCAGCACTCC | CGCTGCACAC | 120 |
| 25 | AGACGGCCTA GG | GGTGGCGC | TCAGACCCCA | CCNTACGCTC | ATCTCTGGAN | GGGGCAGCCC | 180 |
| | TGAGTGGTCA CT | GGTCAGGG | CAGTGGCCAA | GCCTGCTGTG | TCCTTCCTNC | ACAAGGTCCC | 240 |
| | CCCACCGTTC AG | TGTCAGCG | GGTGACGTGT | GTTCTTTTGA | GTCCTTGTAT | GANTAAAAGN | 300 |
| | CTGGAACCTN AN | IAAAAAGTG | NGNNGNGGTN | TNTGNTAN | | | 338 |
| 30 | | | | | | | |
| | SEQ ID NO:489 | 19 | | | | | |
| | SEQUENCE LENG | TH: 356 | | | | | |
| | SEQUENCE TYPE | :nucleic | acid | | | | |
| 35 | TOPOLOGY: line | ar | | | | | |
| | CLONE: HUMGS 05 | 836 | | | | | |
| | SEQUENCE DESC | RIPTION: | | | | | |
| | GATCAGCCCC TG | ACTITNTT | AAAAGATATC | AGAAGTGTCT | TGGAGCCAAC | TAGAGGCAGG | 60 |
| | GTCATCCTTG CC | | | | | | |
| 40 | GAGAAACCAT CA | | | | | | |
| | CTGCCTGANG TT | | | | | | |
| | CTGTNTGAAG GC | | | | | | |
| | AANCCAGTAT AA | ACACGTGG | NGGTCGAAGT | CTTCAGAGTC | CGTACCNTNC | TGGATN | 356 |
| 45 | | | | | | | |
| | SEQ ID NO:490 | 00 | | | | | |
| | SEQUENCE LENG | GTH: 111 | | | | | |
| | SEQUENCE TYPE | | acid | | | | |
| 50 | TOPOLOGY:line | | | | | | |
| 50 | CLONE: HUMGS05 | 5837 | | | | | |
| | SEQUENCE DESC | CRIPTION: | | | | | |

| | GATCCCCCAG AAAAGAAAGC TAAATAGACA CGCACGGCAG | | | | | 60 111 |
|----|--|--------------------------|--------------------------|--------------------------|--------------------------|------------|
| 5 | SEQ ID NO:4901 SEQUENCE LENGTH:293 SEQUENCE TYPE:nucleic TOPOLOGY:linear CLONE:HUMGS05838 | acid | • | | | |
| 10 | SEQUENCE DESCRIPTION: GATCTTAATG GGTTCGATGG ACAATAAAGC AAACAACTCG | | | | | |
| 15 | AGGGGCACAG CACAATTCAG CGTACTGAAA TGAAACGTGT CTGTTACTTC CCACCCNACT | AAATACCCAG ATTAACANGA | GAGGATTCCT AANTGTCAAA | GCAGGCTTAA CTTTTGGGGA | CAGTTGGCAT AACAAATTTT | 180 |
| 20 | SEQ ID NO:4902 SEQUENCE LENGTH:99 SEQUENCE TYPE:nucleic TOPOLOGY:linear | acid | | | | |
| 25 | CLONE:HUMGS05839 SEQUENCE DESCRIPTION: GATCTACATA AGGAAAGGAA TTTTTCTTAA TTATCAAATA | | | ATGAAGACGA | GATAAAATCT | 60 99 |
| 30 | SEQ ID NO:4903 SEQUENCE LENGTH:290 SEQUENCE TYPE:nucleic TOPOLOGY:linear | acid | | | | |
| 35 | CLONE:HUMGS05840 SEQUENCE DESCRIPTION: GATCAGGCAG TTCCTGGACT CAGCGAGGCC CTGAAGCAGT TCGGTGCAGA CTCGGGGGCC | GCAAGTACTA AGTCCTGCAC | CCATGGTCTG NCACNTCTAC | AGCTCCCTGC CCCTCGCCGA | CCTGAAGAGG CAGCCAGACC | 120 180 |
| 40 | ACAACACCAG ATTGTACCCA GATAACCCAA GACACAAATG | | | | | 290 |
| 45 | SEQ ID NO:4904 SEQUENCE LENGTH:68 SEQUENCE TYPE:nucleic TOPOLOGY:linear CLONE:HUMGS05841 SEQUENCE DESCRIPTION: | acid | | | | |
| 50 | GATCTGCCCG CCTTGGCCTC TCTGCAAA | CCAAAGTGCT | GNGATTNCAG | GCATGAGGCG | CTGCATCAGT | 60 . 68 |

| 5 | SEQ ID NO:4905 SEQUENCE LENGTH:223 SEQUENCE TYPE:nucleic acid | |
|----|---|-----|
| · | TOPOLOGY:linear CLONE:HUMGS05842 SEQUENCE DESCRIPTION: GATCTGCAAG CNGGAGCCCT CCTACCCGCA GCTTNAGCAC AGNATCATCC AGCCCTGGGG | an. |
| | AGGCGCACCC TTAAGCAATA CAGACTGGGC TGAGGCTGAC AGGCAGAAGA CTAACAGAGC 12 | |
| 10 | GCANTCTGCA CACGCAGGTT CTGGGGCGAC CTCTGGCCCT GGNCATCTCT GNACTAACTN 18 | |
| | ATCTGAATTA TGGAAGGTGG CAGTNTTGGT CANTAGTTTT NNN 22 | |
| 15 | SEQ ID NO:4906 SEQUENCE LENGTH:293 | |
| | SEQUENCE TYPE:nucleic acid | |
| | TOPOLOGY:linear CLONE:HUMGSO5843 | |
| 20 | SEQUENCE DESCRIPTION: | |
| | GATCCGTCCG CTTCGGCCTC CCAAAGTGCT GGGATTACAG TCGTGAGCAC CGCGCCCGGN | 0 |
| | CTGNGGTCAA TTTTCTATGT CAAGTGAGTG ACATTATTTT TACAAGTATT TTCTTCTTTT 12 | |
| | TAAAATTATA CCAGCAAATA CAGTTAATGC AGAAACCTAA GTAATTTGAG TGTAGCTATT 18 | |
| 25 | CACAATCTAT GTGAAGNNNN CAAAATAGAA TGACCAGTTT TATTATAAAT TAAGGGGCTT 24 | |
| 23 | AATTTTCTAA AAAAGNANAN AANTGAGCCN TATCTCTGTG TTTTATAATT ATN 25 |)3 |
| | SEQ ID NO:4907 | |
| | SEQUENCE LENGTH: 65 | |
| 30 | SEQUENCE TYPE:nucleic acid | |
| | TOPOLOGY:linear CLONE:HUMGSO5844 | |
| | SEQUENCE DESCRIPTION: | |
| | | 60 |
| 35 | | 65 |
| | SEQ ID NO:4908 | |
| | SEQUENCE LENGTH: 225 | |
| 40 | SEQUENCE TYPE:nucleic acid | |
| | TOPOLOGY: linear | |
| | CLONE: HUMGS05845 | |
| | SEQUENCE DESCRIPTION: | en |
| 45 | GATCCTGAAG GCCTTCGAGT ATTTTACTAT TTGGTACAAG ACTTGAAATG TTTNGTNTTC AGTCTTATTG GATTACACTT CAAGATTAAN CCAATTTAAA TTGTATGTNT TCAGGCTGTT 1 | |
| | TGTATATTH ATTAAGGGAT GGGAGGGGTT ATTTGTCATT TACAGTATTG GGGTTTTNAT 1 | |
| | | 25 |
| 50 | SEQ ID NO:4909 | |
| | SEQUENCE LENGTH: 135 | |
| | | |

| 5 | SEQUENCE TYPE:nucleic TOPOLOGY:linear CLONE:HUMGS05846 SEQUENCE DESCRIPTION: GATCAGGTTG GGGGCAGCC CTGACATGTA ATTCTTCTCT CTAAGTCATT TGAAA | CCCAGTCCCT | | | | |
|----|--|--------------------------|--------------------------|--------------------------|--------------------------|------------------|
| 10 | SEQ ID NO:4910 SEQUENCE LENGTH:225 SEQUENCE TYPE:nucleic TOPOLOGY:linear CLONE:HUMGS05847 | acid | | | | |
| | SEQUENCE DESCRIPTION: GATCCAGTAT TTGATGAAAC CTAGGACGCA CTATATGTGA | | | | | 60 |
| 20 | TTTTGGGAAG TNAATTNCTA GAAATGCACC AAATGAATNG | ACTNCTTTCA | CTGATAAATG | NAGAAAAGTA | | |
| 25 | SEQ ID NO:4911 SEQUENCE LENGTH:281 SEQUENCE TYPE:nucleic TOPOLOGY:linear CLONE:HUMGS05848 | acid | | | | |
| 30 | SEQUENCE DESCRIPTION: GATCCCCTAA GGTCCTGGCC GGGGGCATTG TCACCACGTN GGTTGTGCTG CTGGAGAAGG TAGAAGTCGC GGTGCAGGTG | GCCATGACGG GCTGGAGAAG | CTGGTCCCNA GCAATGGCAT | CAGGNCCAGC GCTGCCGCTT | TGGGAGGACT TGCCAGTCCC | 180 |
| 35 | TNTACTTGTG TGCAGCTGAC | | | | 44004444 | 281 |
| 40 | SEQ ID NO:4912 SEQUENCE LENGTH:179 SEQUENCE TYPE:nucleic TOPOLOGY:linear CLONE:HUMGS05849 SEQUENCE DESCRIPTION: | acid | | | | |
| 45 | GATCAAAACC CAGCAGAGTG ACCTGCACTG GTCTACCTTC GGCCTATTTT CAAGGTTTNT | TGCTTCCCTG | GAAAGGATGG | ANTTTACATC | ATTTGGGCAA | 60 120 179 |
| 50 | SEQ ID NO:4913 SEQUENCE LENGTH:313 SEQUENCE TYPE:nucleic TOPOLOGY:linear | acid | | | | |

| | CI ONE - HINCOGEREA | | | | | |
|----|--|-----------------|---------------|--|--------------|-----|
| | CLONE: HUMGS05850 SEQUENCE DESCRIPTION: | | | | | |
| | GATCGAGGGC TGGGNACCCC | GGTGTNAGCA | GGATGGGGCC | CTGCCCTCCC | GTGCNAGTTG | 60 |
| 5 | TGGACTCGAG CCCAGGGGCT | | | | | |
| | TACCTGGAAT GTCTTCTCTG | | | | | |
| | AGGCCAGAGG GCTTGCTGAG | | | | | |
| | TGGACTCCCA CACCTNTGGC | | | | | |
| | CTGTGGAAAA GTN | CIGCGICGCC | CAGIICIII | Iddeletuaa | UNNITUUNCU | 313 |
| 10 | CIGIOUAAAA GIR | | | | | 313 |
| | SEQ ID NO:4914 | | | | | |
| | SEQUENCE LENGTH: 124 | | | | | |
| | SEQUENCE TYPE:nucleic | acid | | | | |
| 15 | TOPOLOGY: linear | aciu | | | | |
| | CLONE: HUMGS05851 | | | | | |
| | SEQUENCE DESCRIPTION: | | | | | |
| | GATCTTATGT GTTACAAAAT | TGGAGAAAGT | ATTTAATAAA | ACCTGTTAAT | TTTTATACTG | 60 |
| 20 | ACAATAAAAA TGTTTCTACA | | | | | |
| 20 | TAAA | dirini i ibii d | 11/210/210/10 | , and a state of the state of t | 10/1000/1101 | 124 |
| | 11001 | | | | | 127 |
| | SEQ ID NO:4915 | | | | | |
| | SEQUENCE LENGTH: 313 | | | | | |
| 25 | SEQUENCE TYPE:nucleic | acid | | | | |
| | TOPOLOGY:linear | | | | | |
| | CLONE: HUMGS05852 | | | | | |
| | SEQUENCE DESCRIPTION: | | | | | |
| 30 | GATCCCCTGA ATGCCTTTGG | AGGCCAGTAG | AGCACACAGG | GTATCCACAT | GTTACCCTGC | 60 |
| | AGCTACATTG TTGAGTTAGT | | | | | |
| | AAAGCAAATA CTAGAACAGC | | | | | |
| | CTGGTTTAAT CATGNTTAAT | | | | | |
| | TNTTGTTTTT AANCCACAGT | | | | | |
| 35 | GGTGTGTAAN TGN | | | | | 313 |
| | | | | | | |
| | SEQ ID NO:4916 | | | | | |
| | SEQUENCE LENGTH: 312 | | | | | |
| 40 | SEQUENCE TYPE:nucleic | acid | | | | |
| | TOPOLOGY: linear | | | | | |
| | CLONE: HUMGS05854 | | | | | |
| | SEQUENCE DESCRIPTION: | | • | | | |
| 45 | GATCTGGGGA CTACCAGAGA | CTCTGGGAAA | TGGACAAGGT | GGGGGGCCCC | ACTCTTTCTC | 60 |
| | TCCTGCAGTC CCGTAGCTGG | | | | | |
| | TGCTCCCATC CCACTCGGTG | | | | | |
| | GAGGAGCCAT AATGTGCATA | | | | | |
| | GTGCCCAGGT GTTGCCCCCT | | | | | |
| 50 | GGGGTNAATT TN | | | | | 312 |

| 5 | SEQ ID NO:4917 SEQUENCE LENGTH:55 SEQUENCE TYPE:nucleic TOPOLOGY:linear CLONE:HUMGS05856 SEQUENCE DESCRIPTION: GATCTAAAATA TTCTGGTTTG | | TTAAAATTTT | TTTGGCAACA | GGAAA | 58 |
|----|---|--|--|--|--|---------------------------------|
| 10 | SEQ ID NO:4918 SEQUENCE LENGTH:370 SEQUENCE TYPE:nucleic | acid | | | | |
| 15 | TOPOLOGY:linear CLONE:HUMGS05857 SEQUENCE DESCRIPTION: GATCCAAGGA NCGTTTGGNT | ተተተርርጥ አርርጥ | ACATCTCCTA | CCTTGGCTGG | CATTATEGEA | 60 |
| 20 | ATNAGGTTCT ACCACTCTGG CTGATGGTCG CCAAAGTTGG TCCAGCTTAG ACTGATGAAG GAGAAATAAG TGCAGCATTT TTGGCAGAGA GGTGGGAAAA | AAAATTCATG AGTTAGTATG AATTAAAAAT TTNCATCTGN | CCTGCAGGTT TTCAACAGAC CTGCATCTTC CATTTTACCT | TAATTGCAGG CCCATTAGCA CACTATTTTC AAAAANAAAG | TGCCAGTTTG GAAGTCATGT AATATATTAN ACACCAAANC | 120 180 240 300 360 |
| 25 | TTGTTACCTN | | | | | 370 |
| 30 | SEQ ID NO:4919 SEQUENCE LENGTH:168 SEQUENCE TYPE:nucleic TOPOLOGY:linear CLONE:HUMGS05858 SEQUENCE DESCRIPTION: GATCTTGAAA GGAAGTATGC ATTAATGCAA TTTATGAACC | TGTTCTCTAT | | | | |
| 35 | GAGATTTCGG AGGAATTGAA | | _ | | IWANDANUAI | 168 |
| 40 | SEQ ID NO:4920 SEQUENCE LENGTH:128 . SEQUENCE TYPE:nucleic TOPOLOGY:linear CLONE:HUMGS05859 SEQUENCE DESCRIPTION: | | | | | |
| 45 | GATCATGGGA GGGAGCTGAG GTAAATAAAC AGGAACTGAT AAGAGAAA | | | | | |
| 50 | SEQ ID NO:4921 SEQUENCE LENGTH:166 SEQUENCE TYPE:nucleic | acid | | | | |

| | TOPOLOGY:linear CLONE:HUMGS05860 | | | | | |
|----|--|------------|------------|------------|------------|-----|
| | SEQUENCE DESCRIPTION: | | | | | |
| 5 | GATCGGGTCC CCAGAGCCAC | CATCTCCTGA | GCCTCCCACC | CCGCTGCCTG | GGCCCTGTGG | 60 |
| | TTGCTGGGCC TCCCACCTCA | AGGAGGGGAA | GGTTGTACAG | CCCGAACCCG | TGGAGCAATG | 120 |
| | CCCTGTNTGG NCTCCAAAAC | CAAAATAAAA | CTGGTGTCAC | TTTAAA | • | 166 |
| 10 | SEQ ID NO:4922 · | | | | | |
| | SEQUENCE LENGTH: 97 SEQUENCE TYPE: nucleic | anid | | | | |
| | TOPOLOGY: linear | aciu | | | | |
| | CLONE: HUMGS05862 | | | | | |
| 15 | SEQUENCE DESCRIPTION: | | | | | |
| | GATCTTTAAA CTGCTTTATA | CACTGTCACG | TGGCTTCATC | AGNTGTGTGC | ATTTCAGGAT | 60 |
| | GGTTTTTAAA GNAACCTCAG | AAAGNTATTT | CCTTAAA | | | 97 |
| 20 | SEQ ID NO:4923 | | | | | |
| | SEQUENCE LENGTH: 211 | | | | | |
| | SEQUENCE TYPE:nucleic | acid | | | | |
| | TOPOLOGY:linear CLONE:HUMGS05863 | | | | | |
| 25 | SEQUENCE DESCRIPTION: | | | | | |
| | GATCACAGAA AAATTAAAAA | TCCAAGTGCT | CTCTAGATTT | GTTGATAAAC | ATTTTATGCT | 60 |
| | TGCATTTAAA CTTGAAATGT | | | | | |
| | GTATTATAAT GTAAAGGCCT | TGTTTTGCTG | TAGCAATANN | ATGACCAAGT | GCAATGACTT | 180 |
| 30 | GATTTAATAA AATCATATNT | TAAAAGTTAA | A | | | 211 |
| | SEQ ID NO:4924 | | | | | |
| | SEQUENCE LENGTH: 338 | | | | | |
| 35 | SEQUENCE TYPE:nucleic | acid | | | | |
| | TOPOLOGY:linear CLONE:HUMGS05864 | | | | | |
| | SEQUENCE DESCRIPTION: | | | | | |
| | GATCAACGCC TCACTGAAAC | ATGGCTGTGT | TTGCAGCCTG | CTCTAGTGGG | ACAGCCCAGA | 60 |
| 40 | GCCTGGCTGC CCATCATNTG | | | | | |
| | GAGGCCCCTG GAGCCAGATG | GCAAGAGGGT | GACAGCTTGC | TTTCCTGTGT | GTACTCTGTC | 180 |
| | CAGTTCCTTT AGAAAAATG | GATGCCCAGA | GGACTCCCAA | CCCTTGGCTT | GGGGTCAANG | 240 |
| | AAACAGCCAG CAAGGNGTTA | | | CTTGTTTGTT | CCCATTTGAA | 300 |
| 45 | NGGCGGNCTT NTGGGCCCTG | GGCCCTTNAG | GTTTGGTN | | | 338 |
| | SEQ ID NO:4925 | | | | | |
| | SEQUENCE LENGTH: 259 | | | | | |
| 50 | SEQUENCE TYPE:nucleic TOPOLOGY:linear | aclq | | | | |
| | CLONE: HUMGS05865 | | | | | |

| | SEQUENCE DESCRIPTION: | | | | | |
|----|------------------------|------------|------------|------------|------------|-----|
| | GATCCTGTCT TCTTTCATGT | TTACTACGAG | GCATGACATT | CATGGCAAAA | CAGGGATGCC | 60 |
| | GTTTCCAAGA GCAGCTATAA | AACAATCTGT | TTTCCTAAAG | ACAGCCACTC | TGAGAAGGNG | 120 |
| 5 | ATGANGGAAC ACGGCAGGGT | | | | | |
| | TTTTCCACTA GGCATCTGTG | | | | | |
| | GGTNNTCANN ACGTGGAAA | | | | | 259 |
| | • | | | | | |
| 10 | SEQ ID NO:4926 | | | | | |
| 10 | SEQUENCE LENGTH: 195 | | | | | |
| | SEQUENCE TYPE:nucleic | acid | | | | |
| | TOPOLOGY: linear | | | | | |
| | CLONE: HUMGS05866 | | | | | |
| 15 | SEQUENCE DESCRIPTION: | | | | | |
| | GATCCACCCA CCTCGGCCTC | CCAAAGTTTT | GGGATTACAG | GCACGAGCCA | CAGTGCCAGC | 60 |
| | TGAAAACGTT TCCTAAACAG | AAGTGCGCAG | AGCATGATGG | AGCCCAGCCT | GGGCTTGACA | 120 |
| | TTTGGAGAGA ACTACAGAGA | AGTATCCAGA | CTGTTGTTAC | TAATAAATAA | ATACATAAGC | 180 |
| 20 | TCCGCTGNAC GGAAA | | | | | 195 |
| | | | | | | |
| | SEQ ID NO:4927 | | | | | |
| | SEQUENCE LENGTH: 56 | | | | | |
| | SEQUENCE TYPE:nucleic | acid | | | | |
| 25 | TOPOLOGY:linear | | | | | |
| | CLONE: HUMGS05867 | | | | | |
| | SEQUENCE DESCRIPTION: | | | | | |
| | GATCCAACAA TAAAATATTA | ATTTATAAAA | AAGAAATTTT | AAAAAGTAAC | AAGAAA | 56 |
| 30 | | | | | | |
| | SEQ ID NO:4928 | | | | | |
| | SEQUENCE LENGTH: 82 | | | | | |
| | SEQUENCE TYPE: nucleic | acid | | | | |
| 35 | TOPOLOGY: linear | | | | | |
| | CLONE: HUMGS05868 | | | | | |
| | SEQUENCE DESCRIPTION: | | | | | |
| | GATCATCCTC CAAGCAGTCC | TGTTCATTCA | TGTCTGCCTC | AAATTGCTGG | TGAATACATA | |
| | AAATAGTTAC TTGCTAATCA | AA | | | | 82 |
| 40 | | | | | | |
| | SEQ ID NO:4929 | | | | | |
| | SEQUENCE LENGTH: 286 | | | | | |
| | SEQUENCE TYPE:nucleio | acid | | | | |
| 45 | TOPOLOGY:linear | | | | | |
| | CLONE: HUMGS05869 | | | | | |
| | SEQUENCE DESCRIPTION: | | | | | |
| | GATCCACCCG CCTCAGCCTC | | | | | |
| | CCTGGATATG AATTTATAAT | | | | | |
| 50 | ATGTGAGGAA GTACTTGCCC | | | | | |
| | CCCTACCCCC CCCCACCACA | CCCACANGNA | TATACTAGCC | ACCCCTTTAA | TATAANTACA | 240 |

| | ACCAGCATAG NAAGNCCCAA | ANCTNTACAG | NNNCCAANAC | CNGGNN | | 286 |
|-----------|--|--------------------------|--------------------------|--------------------------|--------------------------|-----|
| 5 | SEQ ID NO:4930 SEQUENCE LENGTH:311 SEQUENCE TYPE:nucleic TOPOLOGY:linear | acid | | | | |
| 10 | CLONE:HUMGS05870 SEQUENCE DESCRIPTION: GATCTGTGCC CCATGCCTGT GCCAGGGGCT CTTCAGGCCT | CCCTCTCTCT | TCTGCTCCAC | CCTTGGCCTG | TTTCATCCCC | 120 |
| 15 | AGGGGTCCCA GCCACCCCGG GTGAAGATGA TATACTATTN GGNTTCANTT CGNGTGNACG GGNTTCCTTT N | TGNTNAAGCG | TGTCTGTANT | TANTGTGTGA | GGANCTGCTG | 240 |
| 20 | SEQ ID NO:4931 SEQUENCE LENGTH:305 SEQUENCE TYPE:nucleic TOPOLOGY:linear CLONE:HUMGS05871 | acid | | | | |
| 25 | SEQUENCE DESCRIPTION: GATCAAAAAA CTACCTATCT AACAAACCCT GGTGACATGC CTAAAAAAAA AGTTAAAAGA | AATTTACCTA AAAACGTTTG | TATAGCAAGC GNTTATTTC | CTACACATGT CCTCTTTNGA | GCCCCTGAAC ACAANGNCAT | 180 |
| 30 | TGGTTTGCCC AAGGNCTACA GANAATTCTG ATTAAGCCTC GGGAN | | | | | |
| 35 | SEQ ID NO:4932 SEQUENCE LENGTH:233 SEQUENCE TYPE:nucleic TOPOLOGY:linear CLONE:HUMGS05872 SEQUENCE DESCRIPTION: | acid | | | | |
| 40 | GATCCAGAGA CACACAAGAG TCTGAGAGAC CATCCCCAAG GGTTTTCATG AGGATGACCC TTGGTCGNAG NTGTGCTNTT | CACAGACGTC CTTCTTNTAT | CAGACAGACC GATGANCACA | CCCAGACCCT CCCTNCGNAA | CAAGCCATCT ACGGGGTCTG | 120 |
| 45 | SEQ ID NO:4933 SEQUENCE LENGTH:276 SEQUENCE TYPE:nucleic | acid | | | | |
| 50 | TOPOLOGY:linear CLONE:HUMGS05874 SEQUENCE DESCRIPTION: | | | | | |

| | GATCTACTAA AACAC AAAGTTTACA CTTTG | | | | | | |
|----|--------------------------------------|---------|----------------------|------------|------------|------------|-----------|
| | AATATTGTAT GTAGA | AATTC (| CAATTACTGG | TTTGTCAGTN | GGATTCTTAG | CTCTGTAAAA | 180 |
| 5 | CGCCAGTGCA GTCTC | | | | TATATATATN | ATCAGTNCTT | 240 |
| | TGNNTCTCAC AAAGN | GCCTC 1 | NNTTTCCCTG | CTAAGN | | | 276 |
| | SEQ ID NO:4934 | | | • | | | |
| 10 | SEQUENCE LENGTH: | 89 | • | | | | |
| | SEQUENCE TYPE:nu | cleic a | acid | | | | • |
| | TOPOLOGY:linear | | | | | | |
| | CLONE: HUMGS05875 | | | | | | |
| 15 | SEQUENCE DESCRIP | | | | | | |
| ,, | GATCTGGTGG GCTGG | | | NCAGACGCCC | CTAACTCGCC | CCTTCTCATT | 60 |
| | TTATACAATA AACAT | ICICC A | ACCTACAAA | | | | 89 |
| | SEQ ID NO:4935 | | | | | | |
| 20 | SEQUENCE LENGTH: | 313 | | | | | |
| | SEQUENCE TYPE: nu | cleic a | ac i d | | | | |
| | TOPOLOGY: linear | | | | | | |
| | CLONE: HUMGS05876 | | | | | | |
| 25 | SEQUENCE DESCRIP | | . በጥበጥበብጥ <u>.</u> ጥ | 0100101707 | 1701171000 | 10T000TT00 | CO |
| | GATCAGGAGT TCTAG AGCCTGGGCA ACATA | | | | | | |
| • | CATTATAATC TTATG | | | | | | |
| | ATGCAGCACA TGACT | | | | | | |
| | CAATTCGGTG GTATA | | | | | | |
| | CTAACTTTTT CNN | | | | | | 313 |
| | | | | | | | |
| | SEQ ID NO:4936 | 20.4 | | | | | |
| 35 | SEQUENCE LENGTH: | | | | | | |
| | TOPOLOGY: linear | cieic a | iciu | | | • | |
| | CLONE: HUMGS05877 | | | | | | |
| | SEQUENCE DESCRIP | TION: | | | | | |
| 40 | GATCCGGGTT CAGAG | TGACG T | TTTTTCCTCA | CAAGCAGAAG | GTAACAAATT | TCATGCTCTC | 60 |
| | CCTAAATTCT GTCTG | ATTTT 6 | CCTNGTGGT | GATAGATTGT | CANGAACACA | ATGTCCTCTG | 120 |
| | GAGAAATCTA TTGAC | | | | | ACACAGANTT | 180 |
| | TACAGAAAAN TAGAG | AAAAT A | AAACACATTT | GTNNGCCTCA | GAAA | | 224 |
| 45 | SEQ ID NO:4937 | | | | | | |
| | SEQUENCE LENGTH: | 314 | | | | | |
| | SEQUENCE TYPE: nu | | acid | | | | |
| | TOPOLOGY: linear | | - | | | | |
| EA | CLONE: HUMGS05879 | | | | | | |
| | SEQUENCE DESCRIP | TION: | | | | | |

.

| | GATCCTCTCT CCCAGGGAAT CCGACACAGG AGGAACCCCT TCTNTGGTTG ANCTGGGCCA 60 |
|----|---|
| | GGCCTAAGAG TAGCAGGAAC TCTAAGACCA CAGAGTTTTT TATAAATGTA TAAATGTATC 120 |
| | AAGCCAAATN TGCAGATGCT AACTGGACAT TCTGGGGAAC TGGGCACCAG GNGTGCCTTC 180 |
| 5 | ATACACTGTA CCCCAGCTCT NTTCTAAAAG AGAAGTNGGT GGGCACACTT GAACTGTTTG 240 |
| | GTGGNCCNAA CCACAGGANG CTGCAATTNT NTGGNTTAGG GTGATACTTT TGGCCCTNCN 300 |
| | TGTGGCCCCT NTTN 314 |
| | |
| 10 | SEQ ID NO:4938 |
| | SEQUENCE LENGTH: 143 |
| | SEQUENCE TYPE:nucleic acid |
| | TOPOLOGY: linear |
| | CLONE: HUMGS05880 |
| 15 | SEQUENCE DESCRIPTION: |
| | GATCTGAAAG TATAAAACTG CTAGAAGAAA ACATGGATAT TTGATTGGAC AATGATATTT 60 |
| | GGATATGACA CCAAAAGCCT AGGCAACTAA TGCAAAAATA GACAGGGAGA GTACATCAAT 120 |
| | CTTAAAAACC TTATGATGGC AAA 143 |
| 20 | |
| | SEQ ID NO:4939 |
| | SEQUENCE LENGTH: 389 |
| | SEQUENCE TYPE: nucleic acid |
| 25 | TOPOLOGY: linear |
| 25 | CLONE: HUNGS05882 |
| | SEQUENCE DESCRIPTION: |
| | GATCTGAAAT ACCATCTCTA CCAGAGACTC TGGGAAAAAT AATGGATTCC AAGTGTTAAA 60 |
| | CGGAATTAAG TTTGGCCTAA AACTGCCTCT GTACATAGTG ACTTATAACC TCACTTAATG 120 |
| 30 | TATAAGCAAA CTGGGACCTG ACTTGAGAGT ACACTTCTGT AACAAGCAGC AGAGTCTCAC 180 |
| | CAATCACATG CTGAAGGCTC CCAAAACATG NCTATGTGAG GTGGAGGCTG ACCTGCAGTC 240 |
| | AGTCTGGCCA TGTACATGNG TCTTTCCCTT NCTGTGGCTA TAAATAAATA CAGCCTGNAC 300 |
| | ACANCGGACA GGNGGACCGT TCTGNACCAN GNTTGGGTCC TGNGNGNTAC CNAGGTNGAN 360 |
| 35 | GNAACTITIT TINNGCTCAN ITAAACTGN 389 |
| | |
| | SEQ ID NO:4940 |
| | SEQUENCE LENGTH: 131 |
| 40 | SEQUENCE TYPE:nucleic acid |
| 40 | TOPOLOGY: linear |
| | CLONE: HUNGSO5885 |
| | SEQUENCE DESCRIPTION: |
| | GATCTCTCCG CCTTAGTTAA GAGCATGTGT CGGGAAATTC CTCAGAGTGC TCAGAGTCCC 60 |
| 45 | TGTATNTTTA TACCTTTTTA CAATGTTAAC TGTTCAGAAC TGNTTTTTGT AACAAAACCT 120 |
| | NNTGTTTTAA A 131 |
| | |
| | SEQ ID NO:4941 |
| 50 | SEQUENCE LENGTH: 115 |
| | SEQUENCE TYPE:nucleic acid |
| | TOPOLOGY: linear |

| 5 | CLONE:HUMGS05886 SEQUENCE DESCRIPTIO GATCATGGCG CAGTTGGN TGGGAGGTGG CAACNGAG | CA GGAGATGTTC | | | | 60 115 |
|----|--|---|--|--|--|-------------------|
| 10 | SEQ ID NO:4942 SEQUENCE LENGTH:105 SEQUENCE TYPE:nucle TOPOLOGY:linear CLONE:HUMGS05887 SEQUENCE DESCRIPTIO | N: TG CCAAAGCACT | | | | |
| | CCTAATCTTN ATAAATCT | CC ATCCCCATTA | CTCTGGTTCA | CCCNN | | -105 |
| 20 | SEQ ID NO:4943 SEQUENCE LENGTH:350 SEQUENCE TYPE:nucle TOPOLOGY:linear CLONE:HUMGS05888 SEQUENCE DESCRIPTIO | | | · | • . | |
| 25 | GATCACGGAC GTGCAGCT TGTNGTTCTC TATCACTA CTTTCTCCGC CCCAGGGT TTCACACTNC ACTTCATC | CG CCATCTNCGN CG TGGCCGTCAA CC CAGGACATAG CC TTCTACCCAT | CAATCCCAAG TCTGAGGCAA CACAACATAC | AAGCAGGANT GATGGAGGGT AAAGCAACTA | GAAAGTGGCG ATGAGGGGCC CACCTGGGAT | 120 180 240 |
| 30 | TTTNCCAAGC AGCTTTNA GCCACTNGNN TAGGGNCC | | | | CANGUAAGCI | 350 |
| 35 | SEQ ID NO:4944 SEQUENCE LENGTH:304 SEQUENCE TYPE:nucle TOPOLOGY:linear CLONE:HUMGS05889 SEQUENCE DESCRIPTIO | ic acid | | | | |
| 40 | GATCCAGCGG CAGTGACA GAGAAGAAAG AGAAATGA GGGGGCTGGG CCCACACA TCCCAGGACA GGGCAAGG NTTTTCCTAN TCCNTTT | TG CAGCTGGTGC GG CGTGCACCGG GG GCAGCANGGA | CCGAGCCTCT GTAGAGNGCA TACCTGCNAG | CAGGGCCAGA CAGGTAGGCC CCAGGGNCTC | CCAGACAGAT AAGGGGNAGC TNTGGCCTNT | 120 180 240 |
| 45 | AGNN | | | | | 304 |
| 50 | SEQ ID NO:4945 SEQUENCE LENGTH:64 SEQUENCE TYPE:nucle TOPOLOGY:linear CLONE:HUMGS05890 | ic acid | | | | |

| 5 | SEQUENCE DESCRIPTION: GATCAAAACA AAACAAAAAA GTTGTCTCTG AAAAAAAAAC AAAACAAAAA AGTTGTCTCT 60 GAAA 64 |
|----|---|
| 10 | SEQ ID NO:4946 SEQUENCE LENGTH:136 SEQUENCE TYPE:nucleic acid TOPOLOGY:linear CLONE:HUMGS05892 SEQUENCE DESCRIPTION: GATCAACCTT TGTNTGCGAG GGTCTAAGTA GGGTCGAACA CAGAAGTGGG AAGNAGAGGG 60 GTGGGCCAGG GGCTAATGGT GTCACTGTGT AAAGTTTTTG ACATACTAGC TCTATAAATA 120 |
| 15 | TATGAATATG GACAAA 136 |
| 20 | SEQ ID NO:4947 SEQUENCE LENGTH:162 SEQUENCE TYPE:nucleic acid TOPOLOGY:linear CLONE:HUMGS05893 |
| 25 | SEQUENCE DESCRIPTION: GATCCTCTGC TACCAAACAA TGATGTGGAT TCTTTTGCAC AGAAATATTT AAGGTGGGAT 60 GGTAAAAAAT GTCACAAAAG ACTCCTCACC AATACTTNAT GTTGATATCA CTTAATATTA 120 ACCAGACTTT GCTGTATTGC AATAAAACAG AGAACTGTTA AA 162 |
| 30 | SEQ ID NO:4948 SEQUENCE LENGTH:405 SEQUENCE TYPE:nucleic acid TOPOLOGY:linear CLONE:HUMGS05894 |
| 35 | SEQUENCE DESCRIPTION: GATCATCGCC TCCCTGGTTT ATAGTAGACA GACCTTTTCT GTTTTTCATC CGACATAATC 60 CTACAGGTGC TGTGTTATTC ATGGGGCAGA TAAACAAACC CTGAAGAGTA TACAAAAGAA 120 |
| 40 | ACCATGCAAA GCAACGACTA CTTTGCTACG AAGAAAGACT CCTTTCCTGC ATCTTTCATA 180 GTTCTGTTAA ATATTTTTGT ACATCGCTTC TTTTTCAAAA CTAGTTCTTA GGAACAGACT 240 CGATGCAAGT GTTTCTGTTC TGGGAGGTAT TNGAGGGAAA AANCAAGCAG GATGGCTGGA 300 ACACTGTACT GAGGAATGAA TAGAAAGGCT TCCAGATGTC TAAAAAGATT CTTTTAAACT 360 ACTGNAACTG TTACCTAGGT TAACCANCCC TGTTTGAGGT ATTTN 405 |
| 45 | SEQ ID NO:4949 SEQUENCE LENGTH:330 SEQUENCE TYPE:nucleic acid |
| 50 | TOPOLOGY:linear CLONE:HUMGS05895 SEQUENCE DESCRIPTION: GATCTGCTCG GAATCCTCCT GCTAAAGAAG GNTCTGGGCG TGAGCTCAGC CGCCCCGCAC 60 |

| | CCCAAATCCA GTACAGGAGG | CTGCTGGTAC | AAATACTGCA | GTAATGACAC | CAATAATGGG | 120 |
|-----|-----------------------|------------|------------|------------|------------|-----|
| | GCAGACACAA CAGCGTGGCT | TAGATTGTGC | CCACCNAGGG | AAGGTGCTGA | ATGGGACCCT | 180 |
| | GTTGATGGCC CCATCTGGAT | GTAAATCCTG | AGCTCAAATC | TCTGTTACTC | CATTACTGTG | 240 |
| 5 | ATTTCTGGCT GGGTCACCAG | AAATATCGNT | GATNCAGACA | CAGATTATTG | TTCCTGCTGT | 300 |
| | ATTTGCTGGT TTNCCTGGTT | GAATTGGTTN | | | | 330 |
| | | | | | | |
| | SEQ ID NO:4950 | | | | | |
| 10 | SEQUENCE LENGTH: 308 | | | | | |
| | SEQUENCE TYPE:nucleic | acid | | | | |
| | TOPOLOGY:linear | | | | | |
| | CLONE: HUMGS05896 | | | | | |
| | SEQUENCE DESCRIPTION: | | | | | |
| 15 | GATCCAGAAT TTATTAGTTT | AAAATGCAGG | TGAACTTTTT | TTTGCGTTTG | GTTTACTTGT | 60 |
| | CTGTCAAATG TTTCCTTAAA | | | | | |
| | ATTTCTTGGC AAATTTTAAA | | | | | |
| | AGTNTTCCTT AAATGACTTT | | | | • | |
| 20 | TAAAAAAGTN TNNNTAANTG | ACTATCTGTT | GAAANGGTGT | CCTGTNCCTT | NCTNCTAGNA | |
| | ATNTGGGN | | | | | 308 |
| | | | | | | |
| | SEQ ID NO:4951 | | | | | |
| 25 | SEQUENCE LENGTH: 97 | | | | • | |
| 2.0 | SEQUENCE TYPE:nucleic | acid | | | | |
| | TOPOLOGY: linear | | | | | |
| | CLONE: HUMGS05897 | | | | | |
| | SEQUENCE DESCRIPTION: | | | | | |
| 30 | GATCGGAAGC AGAAGATGGC | CTTCTTAAAG | AGTTTAGAAG | AATTTATGGC | AAATGTTGGT | 60 |
| | GGTCTCCTTT GTGTAAAATA | AACAACAGAA | CTTTAAA | | | 97 |
| | | • | | | | |
| | SEQ ID NO:4952 | | | | | |
| 35 | SEQUENCE LENGTH: 229 | | | | | |
| | SEQUENCE TYPE:nucleic | acid | | | | |
| | TOPOLOGY: linear | | | | | |
| | CLONE: HUMGS05898 | | | | | |
| 40 | SEQUENCE DESCRIPTION: | | | | | |
| 40 | GATCTGATAT TAAAACATCC | | | | | 60 |
| | TTTGATGGTG CTTGCAGGTT | | | | | |
| | TTTGATTCAA AATTTGAACA | | | | AGTACAAGTT | |
| | TATTGTTTCA GTATACTCGT | ACTAATAAAA | TAACAGTGCC | AATTGCAAA | | 229 |
| 45 | 570 IR NO 4050 | | | | | |
| | SEQ ID NO:4953 | | | | | |
| | SEQUENCE LENGTH: 144 | | | | | |
| | SEQUENCE TYPE:nucleic | acld | | | | |
| 50 | TOPOLOGY:linear | | | | | |
| | CLONE: HUMGS05899 | | | | | |
| | SPONENCE DESCRIPTION. | | | | | |

| | GATCCAGAGC CCCTCCCCAT | | | | | 60 |
|----|------------------------|------------|------------|--------------------|------------|-----|
| | TTCACTCCTG TGTCTCCAGC | TGATTAGCCT | CAGACTCTTC | TTNTATTGTT | TTTCTTTTGT | 120 |
| | AAATAAAAAG CACCAGGTTC | CAAA | | | | 144 |
| 5 | | | | | | |
| | SEQ ID NO:4954 | | | | | |
| | SEQUENCE LENGTH: 105 | | | | | |
| | SEQUENCE TYPE:nucleic | acid | | | | |
| 10 | TOPOLOGY: linear | | | | | |
| | CLONE: HUMGS05900 | | | | | |
| | SEQUENCE DESCRIPTION: | | | • | | • |
| | GATCCGTGCC CTGTAAAATG | GATATNATGT | TTTACTGATG | TCTNTAATAC | ATTTGTAAAC | 60 |
| | TTCCAATAAA ATTTGAATAA | AAGAAATNTT | GCCATTCTTC | TCAAA | | 105 |
| 15 | | | | | | |
| | SEQ ID NO:4955 | | | | | |
| | SEQUENCE LENGTH: 325 | | | | | |
| | SEQUENCE TYPE: nucleic | acid | | | | |
| 20 | TOPOLOGY: linear | | | | | |
| | CLONE: HUMGS05902 | | | | | |
| | SEQUENCE DESCRIPTION: | | | | | |
| | GATCTGGCAG CCCTGGAGAG | GGACTATGAG | GAAGTGGCGC | ${\tt AAAGTTTCTG}$ | AGGCATGTAT | 60 |
| | GATGGGTGCA AATGAATGTC | AAGTTAAAAT | GGCATGTTTT | CTTTTCAAGC | CGNTATATGC | 120 |
| 25 | CTAGTGGGTA GTTCCCCTGA | TGAGCAGAAA | AATTGAACTC | AAATCAGGCA | AGACTCTAGG | 180 |
| | NTCCACACTA AATTAAGTGG | GTCAGTANCG | NCANTGANCA | CATTATTTCC | TGGTCTACTG | 240 |
| | GGTACANGTC AGCTCTGCTT | ACCTGNGGAG | CNTTTTGGAA | GCTTAAGAGT | NCTTTTGAAC | 300 |
| | CTGGCTTGAG GTCAACTTGT | TAGGN | | | | 325 |
| 30 | | | | | | |
| | SEQ ID NO:4956 | | | | | |
| | SEQUENCE LENGTH: 321 | | | | | |
| | SEQUENCE TYPE:nucleic | acid | | | | |
| 35 | TOPOLOGY:linear | | | | | |
| 00 | CLONE: HUMGS05903 | | | | | |
| | SEQUENCE DESCRIPTION: | | | | | |
| | GATCTGTACA GACAGGACAG | AATGAAACTC | CTGCGGCTCT | TTGGCCTGAA | AGTTGGGAAT | 60 |
| | GGTTGGGGGA GAGAAGGGCA | GCAGCTTATT | GGTGGTCTTT | TCACCATTGG | CAGAAACAGT | 120 |
| 40 | GAGAGCTGTG TGGTGCAGAA | | | | | |
| | CAGACCTGAG CTGGCTTTGC | | | | | |
| | GTTGTAGTGT GGTCTGGGCA | GGCAGACCTT | TTAGGNTTTT | NCTGCTTTAG | TTCCTGAGGN | 300 |
| | ANNINGGNCA CICTITNINI | N | | | | 321 |
| 45 | | | | | | |
| | SEQ ID NO:4957 | | | | | |
| | SEQUENCE LENGTH: 313 | | | | | |
| | SEQUENCE TYPE:nucleio | acid | | | | |
| | TOPOLOGY:linear | | | | | |
| 50 | CLONE: HUMGS05907 | | | | | |
| | SEQUENCE DESCRIPTION | : | | | | |

| | GATCCAGGGG CTGATTGGCA | GCGTGGAGGA | GCAGCTGGCC | CAGCTTCGCT | GCTGAGATGG | 60 |
|----|------------------------|------------|------------|------------|------------|-----|
| | AGCAGCAGAA CCAGGAATAC | AAAATCCTNC | TGGATGTGAA | GACGCGGCTG | GAGCAGGAGA | 120 |
| | TTGCCACCTA CCGCCGCCTN | CTGGAGGGAG | AGGATNCCCA | CCTGACTCAG | TACAAGAAAG | 180 |
| 5 | AACCGGTGAC CACCCGTCAG | GTGCGTACCA | TTGTGGAAGA | GGTCCAGGAT | GGNAAGGTCA | 240 |
| | TCTNCTNCCG NGNGCAGGTT | CACCAGACCA | CCNGTTTGAG | GNCTCANCTA | CCCCGGNTCG | 300 |
| | GNCANCCATN TNN | | | | | 313 |
| | | | | | | |
| 10 | SEQ ID NO:4958 | | | | | |
| | SEQUENCE LENGTH: 54 | | | | | |
| | SEQUENCE TYPE: nucleic | acid | | | | |
| | TOPOLOGY:linear | | | | | |
| | CLONE: HUMGS05908 | | | | | |
| 15 | SEQUENCE DESCRIPTION: | | | | | |
| | GATCATTAAT GTCATTGCAA | TNGTTATTTT | TTAAAATAAA | TTTATAAAAA | TAAA | 54 |
| | | | | | | |
| | SEQ ID NO:4959 | | | | | |
| 20 | SEQUENCE LENGTH: 208 | | | | | |
| | SEQUENCE TYPE:nucleic | acid | | | | |
| | TOPOLOGY: linear | | | | | |
| | CLONE: HUMGS05912 | | | | | |
| | SEQUENCE DESCRIPTION: | | | | | |
| 25 | GATCTACAAG AGCAAGCCAA | CAGAGTAAAG | TGGAAGGAAG | TTTATTCAGA | AAATAAAGGA | 60 |
| | GTATCACAGC TCTTTTAGAA | TTTGTCTAGC | AGGCTTTCCA | GTTTTTACCA | GAAAACCCCT | 120 |
| | ATAAATTAAA AATTTTTTAC | TTAAATTTAA | GAATTAAAAA | AATACAAAAA | AGAAAAAATG | 180 |
| | AAAATAAAGG AATAAGAAGT | TACCTAAA | | | | 208 |
| 30 | | | | | | |
| | SEQ ID NO:4960 | | | | | |
| | SEQUENCE LENGTH: 92 | | | | | |
| | SEQUENCE TYPE:nucleic | acid | | | | |
| 35 | TOPOLOGY:linear | | | | | |
| 33 | CLONE: HUMGS05913 | • | | | | |
| | SEQUENCE DESCRIPTION: | | | | | |
| | GATCCAAGTT ATAGATGGAA | TTGAAGCCCT | TGTNGCTGTA | GATGTGCGTG | CAGTCTGNCA | 60 |
| | GCCTTAAGCC CACCTNGGCA | CTTTTAGATA | AA | | | 92 |
| 40 | | | | | | |
| | SEQ ID NO:4961 | | | | | |
| | SEQUENCE LENGTH: 270 | | | | | |
| | SEQUENCE TYPE:nucleic | acid | | | | |
| 45 | TOPOLOGY:linear | | | | | |
| | CLONE: HUMGS05914 | | | | | |
| | SEQUENCE DESCRIPTION: | | | | | |
| | GATCAACAGT AACTGGATGT | TTTTNAGGNG | CTCAATTGGA | TATAAAATA | TNNAATCTAT | 60 |
| | TTGGAGACCA AAGGCAAAAT | CGGTTTTCTT | ACCTTTGGAA | TTATTCGTAC | CTTTTATGGT | 120 |
| 50 | AAATTTCAGC TTTGACANGT | ATTATGAGGA | ACGTACCAAA | AACCGGTTTG | TAACAAATCT | 180 |
| | NTAGAGNAGG TCTGAATCTN | TCGNNCTTGC | CTTTTCAGGT | GCCATTTCTA | CTGGCCTAAT | 240 |

| | ACAGNGCCAT TTGGCTTGTG | AAGNNCCATN | | | | 270 |
|----|---|--|--------------------------|--------------------------|--------------------------|------------|
| 5 | SEQ ID NO:4962 SEQUENCE LENGTH:236 SEQUENCE TYPE:nucleic TOPOLOGY:linear | acid | | | | |
| 10 | CLONE: HUMGS05916 SEQUENCE DESCRIPTION: GATCTATGCC CNTNTTAATC GTAGTTATTT TTGTGGCATG CTGCATAATG NCATATACAA | GTTAGATTTG TAGTGGTCCC | ACTGGTTTTG ATAAANNNNN | CAGAAGATTA TAATGGAGCA | CAGTTATGTA GAAAATCTAT | 120 |
| | TGCCTCATGA TGTTTTAGCC | GGTTTANTGT | CATAGNCTAG | TGCATNACTC | ACGTGN | 236 |
| 15 | | | | | | |
| 20 | SEQ ID NO:4963 SEQUENCE LENGTH:265 SEQUENCE TYPE:nucleic TOPOLOGY:linear CLONE:HUMGS05917 SEQUENCE DESCRIPTION: | acid | | | | |
| 25 | GATCGAGTAA GGAATGACCT ATAAACCAAG AATGATTTCT AAGGCCACTT CTCAAGCAGC AGGACCCCTA TGTCCAGGNA NNGCAANTAA TAGTAATNTT | CCNGCTTCCN TTTTGGCACC AGGGGAAAAG | TCTCCTCACC TTCAGCCTCA | ATCTTCCCAG GAGTGGAATC | ACGGAGTTCA TTTTAAAGAC | 120 180 |
| 30 | SEQ ID NO:4964 SEQUENCE LENGTH:54 SEQUENCE TYPE:nucleic | acid | | | | |
| 35 | TOPOLOGY:linear CLONE:HUMGS05918 SEQUENCE DESCRIPTION: GATCACATTT ATACAGTTAT | AAAAATAAAG | GTTTGATTTT | GGTCGTTCTT | CAAA | 54 |
| 40 | SEQ ID NO:4965 SEQUENCE LENGTH:63 SEQUENCE TYPE:nucleic TOPOLOGY:linear | acid | | | | |
| 45 | CLONE: HUMGS05919 SEQUENCE DESCRIPTION: GATCTCTATG GCTGTAAAAT AAA | ATTTCTTTAT | AGCGTTATTA | AAGTGTGTCT | TAATAAAATT | 60 63 |
| 50 | SEQ ID NO:4966 SEQUENCE LENGTH:233 SEQUENCE TYPE:nucleic | acid | | | | • |

| 5 | TOPOLOGY:linear CLONE:HUMGS05920 SEQUENCE DESCRIPTION: GATCCACCAAA AGAAGTGAAA GTAGCCTTAA CTGATGACAT TCCACCATTG TNATTTGTTC 60 CTGCCCCACG CTAACTGATA CCATATATTC TTCCCCCGCC CTTGAGAATG TACTTTGTAC 120 ACCTATCCCA AACCTATAAG AACTAATGAT AATCCNACCA CCCTTTGCTG ACTCTCTTT 180 TGGACTCAGC CCGNCTGCAC CCAGGTGAAA TAAACAGCCC TGTTGCTCAC AAA 230 |
|----|--|
| 10 | SEQ ID NO:4967 SEQUENCE LENGTH:137 SEQUENCE TYPE:nucleic acid |
| 15 | TOPOLOGY:linear CLONE:HUMGS05921 SEQUENCE DESCRIPTION: GATCTCTGCG TTTTTATACT GAGTTGCCCT AGGTTGCCCC TTATTTTTNA TTTTCCCTGT 66 |
| 20 | TGCGTTGCTA TAGATGAAGG GTGAGGACAA TCGTGTATAT GTACTAGAAC TTTTTTATTA 120 AAGAAACTTT TCCCAAA 13 |
| 25 | SEQ ID NO:4968 SEQUENCE LENGTH:90 SEQUENCE TYPE:nucleic acid TOPOLOGY:linear |
| 30 | CLONE:HUMGS05923 SEQUENCE DESCRIPTION: GATCTGTAAA CCCTTACCCC TTGCTGTTCA GAGAGCTACT CTTTGTAGTG TTCTTGCATG 60 CATATATAAT AAATATTTTT TCTATTGAAA |
| | SEQ ID NO:4969 SEQUENCE LENGTH:259 |
| 35 | SEQUENCE TYPE:nucleic acid TOPOLOGY:linear CLONE:HUMGS05925 SEQUENCE DESCRIPTION: |
| 40 | GATCTAAATC AATGCAATAA AGTAAGAAAA ATAAATAAAA GTATTGAAAAA GATTGAAAAG 6 AAAGAATTGA AGCTGTCTTT ATTCACAGAT AATGACTGTG TATGTTAATA ATCCTAGANA 12 TCTACAAAAN TCTGCCAAAN CTAATTAGTG AGTTTGGTAA TGTTGCAGGA TATAAGCTCA 18 ATAGAAGTAG TCTTTNGTAT TTCTGTGTAT TAGCAGTGAG CATTTGGAAA ATGANATAAN 24 ANTACAGTTT CATTTCAAA 25 |
| 45 | SEQ ID NO:4970 SEQUENCE LENGTH:350 |
| 50 | SEQUENCE TYPE:nucleic acid TOPOLOGY:linear CLONE:HUMGS05926 SEQUENCE DESCRIPTION: |

| | GATCTGTGCC CTTGGTCCCA GGTCAGGCCC ACCCCCTGCA CCTCCACCTG CCCCAGCCCC 60 |
|-----|---|
| | TGCCTCTNCC CCAAGTGGGG CCAGCTGCCC TCACTTCTGG GGTGGATGAT GTGACCTTCC 120 |
| | TTGGGGGACT GCGGAAGGGA CGAGGGTTCC CTGGAGTCTT ACGGTCCAAC ATCAGGACCA 180 |
| 5 | AGTCCCATGG ACATGCTGAC AGGGTCCCCA NGGAGNCCCC GTCAGTAGGG ATGTTTGCCT 240 |
| | GGNTGTTTAC GTNGGGGTGT NCAGTGNACG TGNAGGAGCA CGTGGGCGGC TTCTGNGGGG 300 |
| | GNCAATGGTT TGGGGNANGG GAAGGTGTGC CAGCAAACCT NGGNNGGATN 350 |
| | |
| 10 | SEQ ID NO:4971 |
| | SEQUENCE LENGTH: 202 |
| | SEQUENCE TYPE:nucleic acid TOPOLOGY:linear |
| | CLONE: HUMGS05927 |
| 15 | SEQUENCE DESCRIPTION: |
| | GATCCACGGG CTGCAGAATG GATATTGTAT TAGCAGGCAT GAAAACAACA TTCATCTCCT 60 |
| | TGTGCATCTC TGTCTGAGTT CTTGGGTGAC CAAATGCCTT GTCAATGAGT GTAGTATTTT 120 |
| | GAAAGGAATC TTTTTTTTT TTTTCNCAGC AGTAGGNCNC AANGGTGGGC TTCAATTATT 180 |
| 20 | CAGTAAACTA TGTAANCAGA AA 202 |
| | |
| | SEQ ID NO:4972 |
| | SEQUENCE LENGTH: 127 |
| 0.5 | SEQUENCE TYPE: nucleic acid |
| 25 | TOPOLOGY: linear |
| | CLONE: HUMGS05928 |
| | SEQUENCE DESCRIPTION: |
| | GATCCCAGCT ACTCAGGAGG CTGAGGCAGA AAAATCACTT GAACCCAGGA GGTGGAGGTT 60 |
| 30 | GCAGTGAGCA GAGACCACAC AACTGCACTC CAGTCTGGGC AACAAAGTGA GACTCTGTNT 120 |
| | TACTAAA 127 |
| | CFO ID NO. 4072 |
| | SEQ ID NO:4973 SEQUENCE LENGTH:249 |
| 35 | SEQUENCE TYPE:nucleic acid |
| | TOPOLOGY:linear |
| | CLONE: HUMGS05932 |
| | SEQUENCE DESCRIPTION: |
| 40 | GATCCTATCA ATTAGACAGT AAATAAGTGC ATCTTTTTTG AGACAAATGC AGTAGGCAAA 60 |
| | TGTTGACATT CACCAGGGCA CAGTCAATCC CTGACAATTT CAGAAGTTTT GTTGCCAATA 120 |
| | CTGATTTATG TGGGCAGATT CTGGNAGTCT GCTGCTCCTT CNCTCATGGA TNACCTNCNN 180 |
| | NNNCCTACAG TTGCACCTAT TCTACACAAG AGTGGCATTC ANTNGTATCC AGGAAAGCTA 240 |
| 45 | GANCAGGIN 249 |
| - | |
| | SEQ ID NO:4974 |
| | SEQUENCE LENGTH: 189 |
| 50 | SEQUENCE TYPE:nucleic acid |
| 30 | TOPOLOGY: linear |
| | CLONE: HUMGS05933 |

| 5 | SEQUENCE DESCRIPTION: GATCCGAGTC GTCCGGAAAT AGAAAACCTC AGGAAATTCT GAGACACGTG CCATGCGGCN NNGNAGGAN | ACAAGGGCAA | GAAGTACAAG | CCCCTNGACC | TGCGGCCTAA | 120 |
|----|---|--------------------------|--------------------------|--------------------------|-----------------------|-----|
| 10 | SEQ ID NO:4975 SEQUENCE LENGTH:230 SEQUENCE TYPE:nucleic TOPOLOGY:linear | acid | | · | | |
| 15 | CLONE:HUMGS05934 SEQUENCE DESCRIPTION: GATCATCATC TTTCAGGTGG CGNATATCCT GTCCNCTGTG GTTCTGTGAG AAGTACGAAC GNNGGGTGTG CTCCAGCAGG | AGTGGTATGA TAGATGCTCA | GTTCCTCACC GCTCCACTGA | TGCATCCCCT GCTNGCTGCG | TCACTGACAA | |
| 20 | | | | | | |
| 25 | SEQ ID NO:4976 SEQUENCE LENGTH:66 SEQUENCE TYPE:nucleic TOPOLOGY:linear CLONE:HUMGS05937 SEQUENCE DESCRIPTION: GATCATTAAT TATATGTAAA | | ጉ ጥር ልር ፒጥ ለ ፒፕ | AAGAAATAAA | <u> የ</u> ተርር የተሞር የተ | 60 |
| | AATAAA | MINNIMUM | IICAGIIAII | MUMMINIM | 0100111011 | 66 |
| 30 | , at the state of | | | | | |
| 35 | SEQ ID NO:4977 SEQUENCE LENGTH:105 SEQUENCE TYPE:nucleic TOPOLOGY:linear CLONE:HUMGS05938 SEQUENCE DESCRIPTION: GATCTATGTC TTTCAGCTAT | | AACTTTGTAA | TTTAGACATT | GATATTGTCA | 60 |
| | TCAGATTGCT TATCAGCATT | GCCATAAATA | TAATTATTAA | TGAAA | | 105 |
| 40 | • | | | | | |
| 45 | SEQ ID NO:4978 SEQUENCE LENGTH:162 SEQUENCE TYPE:nucleic TOPOLOGY:linear CLONE:HUMGS05939 SEQUENCE DESCRIPTION: | | | | | |
| 50 | GATCTGCCCA CCTCGGCCAC CAAAATAAAT AAATTTTAAA GTACCTCCAG TACCTAATAA | ATAGAAGTAA | CTCAACTTCT | GAGCTATGGA | | |

| 5 | SEQ ID NO:4979 SEQUENCE LENGTH:189 SEQUENCE TYPE:nucleic TOPOLOGY:linear CLONE:HUMGS05940 | acid | | | | |
|----|--|--------------------------|--------------------------|--------------------------|--------------------------|-------------------|
| 10 | SEQUENCE DESCRIPTION: GATCGAGGAC TGGTACAGGA CCACGTGCTG AAGNGAAAAN AGACACAGNT GCCCTGGGNG AGGNGTCAN | ACACCAGTIN | CCTGGCAGAG | CAGTGGTCCG | GCAAGAAGGG | 120 |
| 15 | SEQ ID NO:4980 SEQUENCE LENGTH:66 SEQUENCE TYPE:nucleic TOPOLOGY:linear CLONE:HUMGS05941 | acid | | | | |
| 20 | SEQUENCE DESCRIPTION: GATCINITIA AAAAATGTAT TITAAA | AAATTNCTTG | AGTAATTCCT | GGATTAAAGA | ATATGCACTT | 60 66 |
| 25 | SEQ ID NO:4981 SEQUENCE LENGTH:113 SEQUENCE TYPE:nucleic TOPOLOGY:linear | acid | | | | |
| 30 | CLONE:HUMGS05942 SEQUENCE DESCRIPTION: GATCGCTGGC ATCAAGAGTG TATGCTGGTG AGTGTAGGAG | | | | | 60 113 |
| 35 | SEQ ID NO:4982 SEQUENCE LENGTH:316 SEQUENCE TYPE:nucleic TOPOLOGY:linear | acid | | | | |
| 40 | CLONE:HUMGS05943 SEQUENCE DESCRIPTION: GATCATAGTT ATTATACAAT | | | | | |
| 45 | TGAAATAATA AGATAATAAG GAGATGATAC TCAAATTATA NTAAAGCCAT ATTTTTTAG GTAAGTTTTG CTGGATTTT | ATAAAACTCT GGAAACTAAG | TCATTTTGTG GAGTGACATA | AATTATAGAA GAACTGATGA | GCTACTNNNN ATGAGCAAAA | 180 240 300 |
| 50 | ACTITAAATA TTTTTN SEQ ID NO:4983 SEQUENCE LENGTH:338 SEQUENCE TYPE:nucleic | acid | · | | | 316 |

| 5 | TOPOLOGY:linear CLONE:HUMGS05946 SEQUENCE DESCRIPTION: GATCAGCCCA CTTCAGTCTC CGGAGTTATT TCTAAACACA | CCAAAGTGCT | | | | |
|----|--|-------------|------------|------------|-------------|-----|
| | | | | | | |
| | TCAAATNAAT CTTTGGCCAA GCTACGTTTT CTAGGATTTG | | | | | |
| | AAATAACCAT TACTAAAATC | | | | | |
| 10 | AATCGTATGT GNATGGATAC | | | UUIICCIAIA | UNUICACCIA | 338 |
| | SEQ ID NO:4984 | | | | | |
| 15 | SEQUENCE LENGTH: 154 | | | | | |
| | SEQUENCE TYPE: nucleic | acid | | | | |
| | TOPOLOGY:linear CLONE:HUMGS05947 | | | | | |
| | SEQUENCE DESCRIPTION: | | | | | |
| 20 | GATCCGCCCG CCTTGGCCTC | | GGGATTGTAG | GCGTGAGCAC | CCCTGGCCTC | 60 |
| | NAATNTTCAC ATTTATATAC | | | | | |
| | CTTAAATATT TTAATAAATT | ATATCTAATG | TAAA | | | 154 |
| | | | • | | | |
| 25 | SEQ ID NO:4985 | | | | | |
| | SEQUENCE LENGTH: 122 | | | | | |
| | SEQUENCE TYPE:nucleic | acid | | | | |
| | TOPOLOGY: linear | | | | | |
| 30 | CLONE:HUMGS05948 SEQUENCE DESCRIPTION: | | | | | |
| 00 | GATCATGCAG AGAATATATA | | GTAATTTTNT | ATTTACATTT | GTATGATGTG | 60 |
| | ACATAATAGA TGTGAATGTT | | | | | |
| | AA | | | | | 122 |
| 35 | | | | | | |
| 55 | SEQ ID NO:4986 | | | | | |
| | SEQUENCE LENGTH: 133 | | | | | |
| | SEQUENCE TYPE:nucleic | acid | | | | |
| 40 | TOPOLOGY: linear | | | | | |
| 40 | CLONE: HUMGS05949 | | | | | |
| | SEQUENCE DESCRIPTION: GATCTCTATT TTAATNNTAA | | TTCTCCCTNA | ACTCCAAAGA | AATGNGAGTA | 60 |
| | TAGTGAGGTA TGTCTGACTC | | | | | |
| 45 | TTGTGTTNCC TTN | CONCILCTION | ICATUCIOIG | MOINGIA | *********** | 133 |
| 40 | 110 | | | | | |
| | SEQ ID NO:4987 | | | | | |
| | SEQUENCE LENGTH: 351 | | | | | |
| 50 | SEQUENCE TYPE:nucleio | acid | | | | |
| | TOPOLOGY: linear | | | | | • |
| | CLONE: HUMGS05951 | | | | | |

| | SEQUENCE DESCRIPTION: | | | | | |
|----|---|------------|------------|------------|------------|-----|
| | GATCGCACAC ATGCTTTNTT | NNNATATGGA | GTGAACACAA | TTATGTACCA | AATTTAACTT | 60 |
| | GGCAAACTTT CTATTGCCTG | TCCCATGTGC | ATCTTATTTA | AAATTTCCCC | CATGGAAATC | 120 |
| 5 | ACTCTCCTGT TGACTATTTC | CAGAGCTCTA | GGTGTTTAGG | CAGCGTGTGG | TGTCTGAGAG | 180 |
| | GCCATAGCGC CATCATGGGC | TGATTTTTNA | TTACCAGGTC | CCCCAGAAGC | AGGTGGGGAG | 240 |
| | GCTCTGCTTN CTGCTGCCGG | TCTNCAAGNC | TTGGACCTNT | GGACCCTGNT | TTGTAAAGNG | 300 |
| | TAAATTNGTA TCCTTNAGGG | AAACCCAAGT | GTCAACCTTG | TTTNTTCAAT | N | 351 |
| 10 | | | | | | |
| - | SEQ ID NO:4988 | | | | | |
| | SEQUENCE LENGTH: 310 | | | | | |
| | SEQUENCE TYPE:nucleic | acid | | | | |
| | TOPOLOGY:linear | | | | • | |
| 15 | CLONE: HUMGS05952 | | | | | |
| | SEQUENCE DESCRIPTION: | | | | | |
| | GATCGACACA TTCGNATCTN | NAATGNGTGC | TCTGGGGCCT | GTCTGAGTGC | CGTGGATGCC | 60 |
| | CATTCCCAGG TGTGCTCCAT | CCTCTGGTCT | CCCCATTACA | AGGAGCTCAT | CTCAGGCCAT | 120 |
| 20 | GGCTTTGCAC AGAACCAGCT | AGTTATTTGG | AAGTACCCAA | CCATGGCCAA | GGTGGCTGAA | 180 |
| | CTCAAAGGTC ACACATCCCG | GGTCCTGAGT | CTGACCATNA | GCCCAGATNG | GGCCACAGTG | 240 |
| | GCATCCCGNA GCANCAGATT | GNGACCNTGA | GGCTATGGNC | GCTGTTTTGA | NGTTGGTACC | 300 |
| | NTGCGNNGGN | | | | | 310 |
| 25 | | | | | | |
| 20 | SEQ ID NO:4989 | | | | | |
| | SEQUENCE LENGTH: 150 | | | | | |
| | SEQUENCE TYPE: nucleic | acid | | | | |
| | TOPOLOGY:linear | | | | | |
| 30 | CLONE: HUMGS05953 | | | | | |
| | SEQUENCE DESCRIPTION: | | | | | |
| | GATCTGAAAC AAAATCTTTC | | | | | |
| | TTGGGATGTG AAATGTAATT | | | ACTTAATATT | TNAGGCTTGT | |
| 35 | ATTTAATATA ATAAATAGGT | GTTTGTTAAA | | | | 150 |
| | In No. 1000 | | | | | |
| | SEQ ID NO:4990 | | | | | |
| | SEQUENCE LENGTH: 240 | • • | | | | |
| 40 | SEQUENCE TYPE:nucleic | acid | | | | |
| 40 | TOPOLOGY: linear | | | | | |
| | CLONE: HUMGS05954 SEQUENCE DESCRIPTION: | | | | | |
| | | | 0000010010 | 0000180080 | ******* | 60 |
| | GATCATCCCT TCACAATCCC | | | | | |
| 45 | CACCTGGGTC CGTGCCAGCA | | | | | |
| | NAGGTCACAT GCTTCTTCTG | | | | | |
| | AAACTCCCAG TTGNNTATTT | LUAUAAAAGA | AANIAAAIT | GCAGIIGCAA | UCCCITIAAA | 440 |
| | SEQ ID NO:4991 | | | | | |
| 50 | SEQUENCE LENGTH: 323 | | • | | | |
| | SEQUENCE TYPE:nucleic | acid | • | | | |
| | PRESIDENT TITELIFICATION | | | | | |

| | TOPOLOGY:linear CLONE:HUMGS05955 SEQUENCE DESCRIPTION: | | | | | |
|----|--|--------------|------------------------------|--------------|------------|------------|
| 5 | GATCCTTTTT TGTACATTTA TACTTTTTTT AAGGGGTCTT | CANGTANGTA | AAACATACAT | CGTAGCTAGA | AGAAAAATGT | 120 |
| • | ACCTTAAATT TGCATCTTCC | CTCTCATACC | CAAGCTGTAA | ACAATTGAAA | TATTTTGTCT | 180 |
| | TAAATCACTT GGTTCAATAC | | | | | |
| 10 | TCNAAATTTA AAATGCTGTT GACGGGGTTT GGTAGGCCAA | | CTTTTGAGGA | GAGAGTGTGC | TCAGAACTTA | 300 323 |
| | SEQ ID NO:4992 | | | | | |
| 15 | SEQUENCE LENGTH: 110 | | | | | |
| ,0 | SEQUENCE TYPE:nucleic | acid | | | | |
| | TOPOLOGY: linear | | | | | |
| | CLONE: HUMGS05956 | | | | | |
| | SEQUENCE DESCRIPTION: | **** LOCOTO* | ም ርረምምር 4 <u>ም</u> ርር | CTC LCCTC LA | | en |
| 20 | GATCTTAACC ATCACAAGTT | | | | | |
| | CTCATCCTAT TCCTAAATTA | GGCTAATAAA | GIGAAAIIGG | IAIACIIAAA | | 110 |
| | SEQ ID NO:4993 | | | | | |
| | SEQUENCE LENGTH: 228 | | | | | |
| 25 | SEQUENCE TYPE:nucleic | acid | | | | |
| | TOPOLOGY: linear | | | | | |
| | CLONE: HUMGS05957 | | | | | |
| | SEQUENCE DESCRIPTION: | | | | | |
| 30 | GATCGCTTGA GCCCAAGAGT | TTGGGACCAA | TCTGAGCAAT | ATAGCAAGAC | CCCATCTCTA | 60 |
| | CAAAGAATAA AGAAAAATTA | GACTAGCTTG | GTGGCATGTG | CCTGTGGTCC | CAGCTACTCA | 120 |
| | AGAGGCTGAG GTAGGAGGAT | TGCTTGAGCC | TGGGAGGTGG | AGGCATCAGT | GAGCCATGAC | 180 |
| | CGTACCACTT CATTCCAGCC | TAGGTAACAG | AATAAGACCC | TGTCTAAA | | 228 |
| 35 | | | | | | |
| 30 | SEQ ID NO:4994 | | | | | |
| | SEQUENCE LENGTH: 182 | | | | | |
| | SEQUENCE TYPE:nucleic | acid | | | | |
| | TOPOLOGY: linear | | | | | |
| 40 | CLONE: HUMGS05959 | | | | | |
| | SEQUENCE DESCRIPTION: | | | | | |
| | GATCAAGCTA CACATCAGTT | | | | | |
| | CCTTAAAGTT CCATTTGCTA | | | | | |
| 45 | TGCAGCTTGA CGATTGAGCA | CAGTCAGGCC | TTTGTATTAA | AAATGAAANA | TGAAANAACA | 180 |
| | AA | | | | | 182 |
| | CEO ID NO. 4005 | | | | | |
| | SEQ ID NO:4995 | | | | • , | |
| 50 | SEQUENCE LENGTH: 300 | | | | | |
| | SEQUENCE TYPE:nucleic | acid | | | | • |
| | | | | | | |

| | CLONE: HUMGS05960 | | | | |
|----|---------------------------------|---------------|--------------|------------|-----|
| | SEQUENCE DESCRIPTION: | | | | |
| | GATCAACTGG TTTGTGTTTT GCTGCTGC | AT TTATCCCAAG | TNAAACAGGT | TTAATCTCCA | 60 |
| 5 | GANGAAAACC AAAATACCAT GGGATTTA' | TG CTGNATTGAC | ATCTTGCCCT | AAACGNACAA | 120 |
| | CATCATAGTA ATTTGTCATG GGCAACAT | GA CCAGNGAGAA | GATTTTTGTC | ATGATTTTAA | 180 |
| | ATACACTGNC ACGCTACTGT TGGTTAAA | TT TAAACANGTT | TTACCTGCAG | NAATTCTCTC | 240 |
| | ACAAATAACC NGCAATAACT TGAAATGC | | | | |
| | | | | | |
| 0 | SEQ ID NO:4996 | | | | |
| | SEQUENCE LENGTH: 162 | | | | |
| | SEQUENCE TYPE:nucleic acid | • | | • | |
| | TOPOLOGY: linear | | | | |
| 5 | CLONE: HUMGS05961 | | | • | |
| | SEQUENCE DESCRIPTION: | | • | | |
| | GATCCTGCTC CCTTCTGGGC TCTGACTC | CC CTGGAAATCT | CTCCAAGGCC | AGAGCTATGC | 60 |
| | TTTAGGTCTC AATTTTGGAA TTTCAAAC | AC CAGCAAAAA | TTGGAAATCG | AGATAGGTTG | 120 |
| | CTGACTTTNA TTTTGTCAAA TAAAGATA | TT AAAAAAGGCA | AA | | 162 |
| 20 | | | | | |
| | SEQ ID NO:4997 | | | | |
| | SEQUENCE LENGTH: 136 | | | | |
| | SEQUENCE TYPE: nucleic acid | | | | |
| 25 | TOPOLOGY:linear | | | | |
| | CLONE: HUMGS05962 | | | • | |
| | SEQUENCE DESCRIPTION: | | | | |
| | GATCTCAACA ATATTCTTCC AAAATGGC | AT ACATCTTTTG | TACAAAGAAC | TTGAAATGTA | 60 |
| | AATACTGTGT TTGTGCTGTA AGAGTTGT | GT ATTTCAAAAA | CTNAAATCTC | ATAAAAAGTT | 120 |
| 10 | AAATTTTTGT CTGAAA | • | | | 136 |
| | | | | | |
| | SEQ ID NO:4998 | | • | | |
| | SEQUENCE LENGTH:53 | | | | |
| 35 | SEQUENCE TYPE:nucleic acid | | | | |
| | TOPOLOGY: linear | | | | |
| | CLONE: HUMGS05963 | | | | |
| | SEQUENCE DESCRIPTION: | ٠ | - | | |
| ю | GATCTGACCT CAGAATATGC TTTCAGTG | TT ATTTCTGACT | AGTCCTTTTT | AAA | 53 |
| | | | | | |
| | SEQ ID NO:4999 | | | | |
| | SEQUENCE LENGTH: 334 | | | | |
| | SEQUENCE TYPE: nucleic acid | | | | |
| 15 | TOPOLOGY: linear | | | | |
| | CLONE: HUMGS05964 | | | | |
| | SEQUENCE DESCRIPTION: | , | | | |
| | GATCTGCATA AAGTNTTACA AACAAAAI | | | | |
| 50 | AGTCAGACCA ACTGCTGTAA AGAACTTA | | | | |
| | GGAAATATAT AGTGGTCAAA AGANGATI | AA GACAGTTTG | G CAACTGAGTG | ACAGCTCACC | 180 |

| | | | | | TTATCACTAN | | |
|-----|---------------|------------|------------|------------|------------|---|-----|
| | NGAAGAAAGG | NTATNCTTTN | CTANCATGGT | TACCTGCAGC | CAGGTGCATT | TGCAAGTGAN | 300 |
| | GTGTGCTGGT | TGANGTCCTC | TTNTAAGGGN | ATTN | | | 334 |
| 5 | | | | | | | |
| | SEQ ID NO:5 | 000 | | | | | |
| | SEQUENCE LE | NGTH: 117 | | | | | |
| | SEQUENCE TY | PE:nucleic | acid | | | | |
| | TOPOLOGY: li | near | | | | | |
| 10 | CLONE: HUMGS | 05966 | | | | | |
| | SEQUENCE DE | SCRIPTION: | | | | | |
| | GATCTTCCAC | TAGATGTCAC | CAAAAGGACT | GAGAACTAGA | GAAAAGGGCT | GCGATTTCTG | 60 |
| | | | | | TCGCTGTTTG | | 117 |
| 15 | 0101001101 | | | | | 0,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,, | |
| | SEQ ID NO:5 | 001 | | | | | |
| | SEQUENCE LE | | | | | | |
| | SEQUENCE TY | | acid | | | | |
| | TOPOLOGY: 1i | | aciu | | | | |
| 20 | CLONE: HUMGS | | | | | | |
| | SEQUENCE DE | | | | | | |
| | • | | ***** | NCCCCCCAGE | GTGGCTGCCT | TCACCGCGGA | 60 |
| | | | | | ATCCTTGGCT | | |
| 25 | | | | | | | |
| | | | | | AGGCCTGATG | | |
| | | | | | CATCCTGACT | GCAGCANIGG | |
| | GGTTCCCCGG | CAUGUNTUUG | IGAGGNAGGA | AGGGGGTCAA | GCCIGGNGIN | | 290 |
| | OPO ID NO.5 | 000 | • | | | | |
| 30 | SEQ ID NO:5 | | | | | | |
| | SEQUENCE LE | | | | | | |
| | SEQUENCE TY | | acid | | | | |
| | TOPOLOGY: 1i | | | | | | |
| 35 | CLONE: HUMGS | | | | | | |
| | SEQUENCE DE | | | | | | |
| | | | | | TTAGCACCTC | | |
| | | | | | TCAGTTACCC | | |
| | | | | | ACTTTTNAGT | | |
| 40 | | | | | AAATAGAAGA | CTAGGGTTGT | |
| | TTCTTAAAGT | TTAGCTCATG | TTATAATAAA | AAGTTGNAAT | GAAA | | 284 |
| | | | | | | | |
| | SEQ ID NO:5 | | • | | | | |
| 45 | SEQUENCE LE | | | | | | |
| | SEQUENCE TY | PE:nucleic | acid | | | | |
| | TOPOLOGY: 1 i | | | | | | |
| | CLONE: HUMGS | 05969 | | | | | |
| - • | SEQUENCE DE | SCRIPTION: | | | | | |
| 50 | GATCGTCCCT | GGTCACCCGA | CTTTGGAATT | TGCACCATCA | TGTTTCAGTG | AAGATGCTGT | 60 |
| | AAATAGGTTC | AGATTTTACT | GTCTATGGAT | TTGGGGTGTT | ACAGTAGCCT | TATTCACCTT | 120 |
| | | | | | | | |

| | TTTAATAAAA ATACACATGA | NGACAAGAA | GAAATGGCTT | TTCTTACCCA | GATTGTGTAC | 180 |
|----|---|------------|------------|------------|------------|-----|
| | ATAGNGCAAT GTTGGTTTT1 | TATAAAGTC1 | AAGCAAGATG | GTTTTGTATA | AANTCTGAAT | 240 |
| | TTTGCAATGT ATTTAGCTAG | AGCTTGTTTA | NCGGCAGTGT | CATTNCCCTT | TGCACTGNAA | 300 |
| 5 | NGAGGAAAAA NNNGGNATTA | AAAGGGTTGC | CAANTTGGCA | AAAGGN | | 346 |
| | SEQ ID NO:5004 | | | | | |
| | SEQUENCE LENGTH: 337 | | | | | |
| 10 | SEQUENCE TYPE: nucleic | acid | | | | |
| | TOPOLOGY:linear | | | | | |
| | CLONE: HUMGS05970 | | | | | |
| | SEQUENCE DESCRIPTION: | | | | | |
| | GATCTGCTCG CCTCGGCCTC | CCAAAGGATG | GGATTACAGG | CACCAGCCAC | TGNGCCTGGC | 60 |
| 15 | TGGCCTCTGN TTTTTAATAA | AACNTGACTA | GAGTGACTCC | ATCTTAAAGT | GAGTAGCTAG | 120 |
| | GCACTTACAA GGTTCATGCT | TATGGCCTGA | AAATAACCAC | ATCCCAGGCT | GACCACCAAT | 180 |
| | TATAATTACA GANTATTTAT | GGCCATACAG | NNCATGNTCC | ACCAAGCCTG | CAGAATGTCC | 240 |
| | AAATNTCCTA AGAATGCAGC | CNCCATTACT | TANATATANC | ATAAATGAGC | ANGCTTAGGT | 300 |
| 20 | TGCAGGNTTA ATGGTCGTGG | ATANCAGCAT | TNGNCCN | | | 337 |
| | SEQ ID NO:5005 | | | | | |
| | SEQUENCE LENGTH:211 | | | | | |
| | SEQUENCE TYPE:nucleic | anid | | | | |
| 25 | TOPOLOGY: linear | aciu | | | | |
| | CLONE: HUMGS05974 | | | | | |
| | SEQUENCE DESCRIPTION: | | | | | |
| | GATCAGGGTT ACATAGGTTT | GGTAAAATNA | GTGCTGGAAA | TNAACTTTCT | CCCAGTAGTC | 60 |
| 30 | TTAGGTCATG CTCAGTGAAC | | | | | |
| | TTCCCTTTCT AGCCAGTGAA | | | | | |
| | AGTTTAAAAC GCCACCCNCT | | | TONGCCCCTC | CARUCCUCA | 211 |
| | SEQ ID NO:5006 | | | | | |
| 35 | SEQUENCE LENGTH: 103 | | | | | |
| | SEQUENCE TYPE:nucleic | | | | | |
| | TOPOLOGY: linear | acid | | | | |
| | CLONE: HUMGS05975 | | | | | |
| 40 | SEQUENCE DESCRIPTION: | | | | | |
| | • | CCACCCTCCT | CONTRACTIC | CTCTLLCCCL | 0010000010 | ~~ |
| | GATCCTCCTG CCTTGGCCTC GCTAACCCTT TATAAGAAAT | | | | CCAGGCCCAG | 60 |
| | UCIANCOCII INIANAANI | AAAUTOTOOT | · | nnn | | 103 |
| 45 | SEQ ID NO:5007 | | | | | |
| | SEQUENCE LENGTH: 265 | | | | | |
| | SEQUENCE TYPE:nucleic | acid | | | | |
| | TOPOLOGY:linear | | | | | |
| | CLONE: HUNGS05976 | | | | | |
| 50 | SEQUENCE DESCRIPTION: | | | | | |
| | GATCCGTCTG GGCACGCTGG | AGCAGGAGGC | CACAGCAGAC | GTGGAGTGGC | GCTGGCACCC | 60 |
| | | | | | | |

| | TTACACCAAT ACCGCACGCA CAGTCAGGAC ATGGACTTGG AACTGTCACA GAATGGCCTG | AACTCAGGAT | TGGGCTGTCA | TAGACAGACC | CACCAGTAGG | 180 |
|----|---|------------|------------|------------|------------|------------|
| 5 | AATAAACCGT CTGTGTCATG | | | | | 265 |
| | SEQ ID NO:5008 SEQUENCE LENGTH:308 | 1 | | | | |
| 10 | SEQUENCE TYPE:nucleic | acid | | | | |
| 10 | TOPOLOGY:linear | • | | | | |
| | CLONE: HUMGS05978 | | | | | |
| | SEQUENCE DESCRIPTION: | | | 0000000000 | | C O |
| 15 | GATCATCAGC AATNCCTTCT TGACAACTTT GGTATCGTGG | | | | | |
| .0 | GAAGACTGTG GATNGCCCCT | | | | | |
| | CATCATNCCT GCCTCTACTG | | | | | |
| | CGGGAAGCTC ACTGGCATGG | | | | | |
| 20 | NGANCGTN | | | | | 308 |
| | | | | | • | |
| | SEQ ID NO:5009 | | | | | |
| | SEQUENCE LENGTH: 336 | | | | • | |
| 25 | SEQUENCE TYPE:nucleic TOPOLOGY:linear | acid | | | | |
| | CLONE: HUMGS05980 | | | | , | |
| | SEQUENCE DESCRIPTION: | | | | | |
| | GATCCGATTT GTGGAGGATG | AGAAAGATGA | AGAAGACAAT | NAGACGAGAA | CACTTCTAAG | 60 |
| 30 | GCGAGCCACT CCACACCCAG | | | | | |
| | GAATGACATG AATGCTGCTA | | | | | |
| | TGACCGAGTG ACCACTTCTG | | | | | |
| | TCTGCTGTCG AGACGTTCCT | | | ACGTGCTCCT | TGTCCTAACC | |
| 35 | AGCCCCCGNG NGCCATCTTT | CCCGTGGAGT | GIIGIN | | | 336 |
| | SEQ ID NO:5010 | | | | | |
| | SEQUENCE LENGTH: 327 | | | | | |
| | SEQUENCE TYPE:nucleic | acid | | | | |
| 40 | TOPOLOGY: linear | | | | | |
| | CLONE: HUMGS05981 | | | | | |
| | SEQUENCE DESCRIPTION: | | | | | |
| | GATCGCTTTT NTGACTGTTC | | | | | |
| 45 | GATTTGTTGG TATTGGGGAC CATAGACGTA GTTTTCGCAT | | | | | |
| | AAAACTCCAT GGNCNNNGTC | | | | | |
| | CCTAGGGTTA AGTNTGCAAG | | | | | |
| | TGCACTTGTN GTCTGTCTTC | | | | | 327 |
| 50 | | | | | | |

SEQ ID NO:5011

| 5 | SEQUENCE LENGTH: 326 SEQUENCE TYPE: nucleic TOPOLOGY: linear CLONE: HUMGS05982 SEQUENCE DESCRIPTION: | acid | | | | |
|----|--|------------|------------|-------------|-------------|-----|
| | GATCAAGTTT TAAATCCTCC | TOCTTOCCTT | TTTNCTGGAG | TNTTGAGGGC | CAGAGTTTTN | 60 |
| | NTTTTTNTTT TTGTTTTTGT | | | | | |
| | TAAACCTGAG ACTAACTTAA | | | - | | |
| 10 | CAAGGAAGTA GCTGCCCCAG | | | | | |
| | AGATGCATCG AGCAGTCCCA | | | | | |
| | AGAAGTCAGG GAAGAGTCCC | | ATTIAIANOG | 40110111100 | NUUNCCI UNC | 326 |
| 15 | SEQ ID NO:5012 | | | | | |
| | SEQUENCE LENGTH: 326 | | | | | |
| | SEQUENCE TYPE:nucleic | acid | | | | |
| | TOPOLOGY: linear | | | | | |
| 20 | CLONE: HUMGS05983 | | | | | |
| | SEQUENCE DESCRIPTION: | | | | | |
| | GATCATTTGA CTGGGCTGGA | GAACATCCTT | TTACATGGCC | NTCCCATGGA | TGTGCTGTAC | 60 |
| | ATCTGCTTAA AAGAAAATAA | TTACTTTNAT | GAGCGTCTTC | AAAAGGACTC | TTGGTGCAAC | 120 |
| | AGACTNAATT GGAACTCAGC | TTTTCTAACT | GTCACTGCAC | CAAGCTCTGC | TGGAGGAGTG | 180 |
| 25 | ACCAGACTCA CGATTTGGTA | TAGTGGGGCT | CTCAAGCATC | TTCAATTTGA | ATGTACATGC | 240 |
| | TGCTGAGGAG CCGGTGAAGT | CATCAGTTCC | GCACATCCCT | TCTACCCTNC | AACTGCATGG | |
| | GAAGCCAAAG TNCTGGTTTT | GAAGAN | | | | 326 |
| 30 | SEQ ID NO:5013 | | | | | |
| | SEQUENCE LENGTH: 327 | | | | | |
| | SEQUENCE TYPE:nucleic | acid | | | | |
| | TOPOLOGY: linear | | | | | |
| | CLONE: HUMGS05984 | | | | | |
| 35 | SEQUENCE DESCRIPTION: | | | | | |
| | GATCTGGGGG CTAGCAGTGA | GTACCCGCAT | GGTATCAGCC | TGCCTCTCCC | GCCCACGCCC | 60 |
| | TGCTGTCTCC AGGCCTATAG | ACGTTTCTNT | CCAAGGCCCT | ATCCCCCAAT | GTTGTCAGCA | 120 |
| | GATGCCTGGA CAGCACAGCC | ACCCATCTCC | CATTCACATG | GCCCACCTCC | TGCTTCCCAG | 180 |
| 40 | AGGACTGGCC CTACGTGCTC | TCTCTCGTCC | TACCTATCAA | TGCCCAGCAT | GGCAGAACCT | 240 |
| | GCAGCCCTTG GCCACTGNAG | ATGGAAACCT | NTCAGTGTCT | TGGNATGACC | CTACCNAGGT | 300 |
| | GGTGGGTCTC CAACANAGCC | ACTTGTN | | | | 327 |
| 45 | SEQ ID NO:5014 | | | | | |
| | SEQUENCE LENGTH:293 | | | | | |
| | SEQUENCE TYPE:nucleic | acid | | | | |
| | TOPOLOGY:linear | | | | | |
| | CLONE: HUMGS05987 | | | | | |
| 50 | SEQUENCE DESCRIPTION: | | | | · | • |
| | GATCTCAAAA AAGAAGGAAT | TTCTCCTTTG | TTTCTTGCAG | TTAATGTAAG | AATACTTTAA | 60 |

| | ATCTCTAAGC TTCTGAAC | TG TTAGAGGTAG | AGATGGTCTA | GTAAAGATGT | AGTAGTAATG | 120 |
|----|--|------------------|------------|------------------|---------------|-----|
| | TTTTATCCAT TTAGCATO | TG TTTATNTNTC | CATATGTNCT | CAAAGGTGAC | TTATTGGTTC | 180 |
| | ACCTCAGTGA TATTACAG | CT AAANNNNTCA | TTCATTAGCA | AAAGGNAAAG | TGGTCTCAAC | 240 |
| 5 | CTAACATCAG ANGTGTTT | CT NATTATGNTN | TNATATTGCG | TTGGANTATT | GGN | 293 |
| | | | | | | |
| | SEQ ID NO:5015 | | | • | | |
| | SEQUENCE LENGTH: 71 | | | | | |
| 10 | SEQUENCE TYPE: nucle | ic acid | | | | |
| | TOPOLOGY: linear | | | | | |
| | CLONE: HUMGS05988 | | | | | |
| | SEQUENCE DESCRIPTION | N: | | | | |
| | GATCTATACA GGTATGTC | TG ACGGGACGCA | GCACCGTGGG | CACGCACCAA | ATAGAGTTTT | 60 |
| 15 | TAAAAGAGAA A | | | | | 71 |
| | | | | | | |
| | SEQ ID NO:5016 | • | | | | |
| | SEQUENCE LENGTH: 354 | | | | | |
| 20 | SEQUENCE TYPE: nucle | ic acid | | | | |
| | TOPOLOGY:linear | | | | | |
| | CLONE: HUMGS05989 | | | | | |
| | SEQUENCE DESCRIPTIO | | | | | |
| 25 | GATCCINITC TITCAGCA | GG TGAAAAATAA | AACGCAGTTC | AAATTTCATG | GTTTTAATTT | 60 |
| | TCANCTCAGA AGCACTCA | | | | | |
| | GTGTATCCAG CCTTCACT | | | | | |
| | TTTCATCTGC TGAAAGGN | | | | | |
| | TCTGCTTGTN GTNGCTTA | | | | | 300 |
| 30 | TGGATTTGAT GNTNACTG | GC NGNNAGTTTG | ACCTTTGCTG | NTATGGGGAA | ANTN | 354 |
| | DDO ID NO COLD | | | | | |
| | SEQ ID NO:5017 | | | | | • |
| | SEQUENCE LENGTH: 149 | | | | | |
| 35 | SEQUENCE TYPE:nucle TOPOLOGY:linear | ic acid | | | | |
| | CLONE: HUMGS05991 | | | | | |
| | SEQUENCE DESCRIPTIO | v . | | | | |
| | GATCGGAAGA GGGAGGAG | • | NACALATIA | A C.T.A TTTT A A | TTC 4 TTTVT 4 | 60 |
| 40 | TTTATTAAAT NAAAAAAC | | | | | |
| | TNGAAATAAA GTCCTGTN | | ICCCIMITAL | TIGGIGGAAC | CIANIUACIG | 149 |
| | INGMENTAL GIOCIGIN | II INCCCIANA | | | | 143 |
| | SEQ ID NO:5018 | | | | | |
| 45 | SEQUENCE LENGTH: 259 | | | | | |
| 45 | SEQUENCE TYPE: nucle | ic acid | | | | |
| | TOPOLOGY: linear | LU GUIU | | | | |
| | CLONE: HUMGS05992 | | | | | |
| | SEQUENCE DESCRIPTION | N - | • | | | |
| 50 | GATCCAAAAA CCTCCACC | ··· - | AAATTGTAGC | TATTGAAGCT | GTACTNCTTT | eυ |
| | GTACATAGGT GCTTTGGG | | | | | |
| | | | | | | |

| | ACATTAAATT CAAATAACAG | AGAATTTCTA | TTGTACAGCC | TTGCAACTTT | NCTTTAAGTT | 180 |
|----|-----------------------|------------|------------|------------|------------|-----|
| | TAANCTTTNC TNNAAAATAA | AATTTTAAGT | GGCAAAAATN | ATTATTAGAN | GAGAAAANGT | 240 |
| | GTGCTCATTT TTNANTATN | | | | | 259 |
| 5 | | | | | | |
| | SEQ ID NO:5019 | | | | | |
| | SEQUENCE LENGTH: 173 | | | | | |
| | SEQUENCE TYPE:nucleic | acid | | | | |
| 10 | TOPOLOGY: linear | | | | | |
| | CLONE: HUMGS05993 | | | | | |
| | SEQUENCE DESCRIPTION: | | | | | |
| | GATCACCTGA GGGGAAAGGN | TTGTNTCTCT | CCTTTCTGTT | GGGNGAGGGG | GATGGGGGAC | 60 |
| | TTTTNTTGGT GGCTCCCACC | CATATATCCC | TCCTTNACCA | TAGTACTCCC | ACCCACTTCC | 120 |
| 15 | ATCACCCATC CAATAAAATG | CAGCCAGGTT | TAGCCTTTGG | CTTTGGTCAC | AAA | 173 |
| | SEQ ID NO:5020 | | | | | |
| | SEQUENCE LENGTH: 266 | | | | | |
| 20 | SEQUENCE TYPE:nucleic | acid | | | | |
| | TOPOLOGY: linear | | | | | |
| | CLONE: HUMGS05994 | | | | | |
| | SEQUENCE DESCRIPTION: | | | | | |
| 05 | GATCTACCCT CTAGTTTACT | TGCTCGGGAG | AAGAAACTGA | CTCGTTTTAT | TTAGTGCCTA | 60 |
| 25 | TTTAGCGAGC CCAGAGTAAC | GTACATTTGT | NCTGTTTTCA | ATTTTGTGCT | ATCGCAAATC | 120 |
| | ACAAAAAAC TGTTATCAAT | TCACATTCAT | CATCAGCACG | AGACCCATTT | CCTTGTGCTC | 180 |
| | CTGCCAGCTC AGGNTATNAT | GTTTCTTTTT | TCATGTTTGC | CAGTCTGTTA | GGTAAAANGT | 240 |
| | CATATGCGGT TGTTTTAATT | TGCAAA | | | | 266 |
| 30 | | | | | | |
| | SEQ ID NO:5021 | | | | | |
| | SEQUENCE LENGTH: 121 | | | | | |
| | SEQUENCE TYPE:nucleic | acid | | | | |
| 35 | TOPOLOGY: linear | | | | | |
| , | CLONE: HUMGS05996 | | | | | |
| | SEQUENCE DESCRIPTION: | | | | | |
| | GATCAAGGTG ATTCTGAAAG | TTTTAATTTT | TAATGTTGTA | ATGTTATGTT | ATTGTTAATT | 60 |
| | GTACTTTATT ATGTATTCAA | TAGAAAATCA | TGATTTATTA | ATAAAAGCTT | AATTTCTCAA | 120 |
| 40 | A | | | | | 121 |
| | | | | | | |
| | SEQ ID NO:5022 | | | | | |
| | SEQUENCE LENGTH: 58 | | | | | |
| 45 | SEQUENCE TYPE:nucleic | acid | | | | |
| | TOPOLOGY: linear | | | | | |
| | CLONE: HUMGS05997 | | | | | |
| | SEQUENCE DESCRIPTION: | | | | | |
| 50 | GATCTAGTTG TATTTCTCAT | ACTAGCAATG | AACAATTGGC | AGTTGAAGTA | AAAGCAAA | 58 |
| 50 | | | | | | |
| | SEQ ID NO:5023 | | | | | |

| | SEQUENCE LENGTH: 238 | | · | | | |
|----|-----------------------|---------------|------------|------------|------------|-----|
| | SEQUENCE TYPE: nuclei | c acid | | | | |
| | TOPOLOGY: linear | | | | | |
| 5 | CLONE: HUMGS05998 | | | | | |
| | SEQUENCE DESCRIPTION | ! : | | | | |
| | GATCGTAATA TCTCGAACA | T TACATAGACA | CTTAAAACCT | TTAGTTGTAT | TTCATCAAAA | 60 |
| | ATCTGTTCAT GCCCCACGT | T GGTTTCAAAA | CATACTATGC | TTTTNCTTCG | TGTTATTTCC | 120 |
| 10 | TATATNCATT TTNGTGTGT | A TGTGTATGTC | ACAAATATTG | ATATGCCTGG | TTGTTTATTT | 180 |
| 70 | TGGTNTGCTA TTATGCCTT | T TTCAAAATAT | AAAANTAAAC | TNGTAANTNC | TAACNAAA | 238 |
| | | | | | | |
| | SEQ ID NO:5024 | | | | | |
| | SEQUENCE LENGTH: 198 | | | | | |
| 15 | SEQUENCE TYPE: nuclei | c acid | | | | |
| | TOPOLOGY: linear | | | | | |
| | CLONE: HUMGS05999 | | | | | |
| | SEQUENCE DESCRIPTION | : | | | | |
| 20 | GATCGAGACC AGCCTGACC | A ACATGGTGAA | CCCTGTCTCT | ACTAAAATAC | AAAAATTAGC | 60 |
| | TGGGCGTGTT GGCACACAC | C TGTAATCCCA | GCTACTCAGG | AGGCTGAGGC | AGGAGAATTA | 120 |
| | CTTTAACCTG CGGGGGGAG | C CTAGATTGCG | CTACTGCACT | CCAGCCTAGG | CAACAGAGGG | 180 |
| | AGACTCTGTC TCATTAAA | | | | | 198 |
| | | | | | | |
| 25 | SEQ ID NO:5025 | | | | | |
| | SEQUENCE LENGTH: 301 | | | | | |
| | SEQUENCE TYPE: nuclei | c acid | | | | |
| | TOPOLOGY:linear | | | | | |
| 30 | CLONE: HUMGS06000 | | | | | |
| | SEQUENCE DESCRIPTION | l : | | | | |
| | GATCTTGTGT CAAGTTAAC | | | | | 60 |
| | GGATGTAGAG TATTGGGAA | | | | | |
| 35 | GTNATGTATC TGCCCAGCC | T TCTCAGAACT | CAATGTTGTA | CATTTTTCCC | TCTAGGACCT | 180 |
| | GAATTGGTCT TGGAGGCAG | | | | | |
| | TATATNGGTT TCTCCNNGN | IN CCTCTCATGA | ATCTGCTCGT | TTCTCTACNT | CTTGGCTACG | 300 |
| | N | | | | | 301 |
| | | | | | | |
| 40 | SEQ ID NO:5026 | | | | | |
| | SEQUENCE LENGTH: 301 | | | | | |
| | SEQUENCE TYPE: nuclei | c acid | | | | |
| | TOPOLOGY:linear | | | | | |
| 45 | CLONE: HUNGSO6001 | | | | | |
| | SEQUENCE DESCRIPTION | | | | | |
| | GATCCTGGTA ACTGTTCC | AG GATTGCTCCA | GGTTTGAGAT | GGTATTGCTA | AATTTAAAAT | 60 |
| | TAAACAAGAG ACCCAACAA | | | | | |
| 50 | CTTGCCCCAA TGATAGAAA | | | | | |
| 50 | TTATAAAANG GAAAAGANA | | | | | |
| | AAGATGTGCA TTCCTTTCT | G CTTGCNCTCT | AGTAAAGGNT | TTACTACCGG | GAAAAAAAAG | 300 |

| | N | 301 |
|----|--|-----|
| 5 | SEQ ID NO:5027 SEQUENCE LENGTH:117 | |
| | SEQUENCE TYPE: nucleic acid | |
| | TOPOLOGY: linear | |
| | CLONE: HUMGSO6004 | |
| 10 | SEQUENCE DESCRIPTION: | |
| | GATCANGAAA AAGACAAAAT CTNTCAAAGC CTTCAAAACC AGGAAAAGAT AAGGAGCCCA | 60 |
| | CCALLACTION AND ADDRESS OF THE PROPERTY OF THE | 117 |
| | SEQ 1D NO:5028 | |
| 15 | SEQUENCE LENGTH: 231 | |
| | SEQUENCE TYPE:nucleic acid | |
| | TOPOLOGY: linear | |
| | CLONE: HUMGSO6005 | |
| 20 | SEQUENCE DESCRIPTION: | |
| | GATCAGGAAT GGTGTGGATT GAGAACTTGT TACTTGAAGA AAAAGAATTT TGATATTGGA | 60 |
| | ATAGCCTGCT AAGCGGTACA TGTGGGTATT TTGGNGTTAC TTAAAAANNA TTTTNGGGAT | |
| | AAGAGAATTT CAGCAAAGAT GTTNTAAATA TATATAGTAA GTATAATGNA TANTANGTAC | 180 |
| 25 | AATGGAAAAN ACAATTATAT TGTAAAATTA TANCTGGGCA AGCATGGNTG N | 231 |
| | SEQ ID NO:5029 | |
| | SEQUENCE LENGTH: 194 | |
| | SEQUENCE TYPE:nucleic acid | |
| 30 | TOPOLOGY: linear | |
| | CLONE: HUMGS06008 | |
| | SEQUENCE DESCRIPTION: | |
| | GATCATGGAA CAGAATCACC CTCTCCTGCA TGTTTTTNTT TCTGTCTCCT GCTTTNCTGT | 60 |
| 35 | TCTTTTTCCA CTTTCTCTAT GTGTGAGTTG ACTTGGCTGC CTGTAGCTTC ATCGTCAAAG 1 | |
| | CTGGTCCACG TGGGNTCAAC TTGGTGCTCT CACTCTCCTC CAGCATTGTT TTTGGCATCA 1 | 180 |
| | AAGCTAGAAT TAAA | 194 |
| | SEQ ID NO:5030 | |
| 40 | SEQUENCE LENGTH: 89 | |
| | SEQUENCE TYPE:nucleic acid | |
| | TOPOLOGY: linear | |
| | CLONE: HUMGS06010 | |
| 45 | SEQUENCE DESCRIPTION: | |
| | | 60 |
| | TGCATTCAAT AAACAACCAG ACTCAGAAA | 89 |
| 50 | SEQ ID NO:5031 | |
| 50 | SEQUENCE LENGTH: 174 | |
| | SEQUENCE TYPE: nucleic acid | |

| ÷ | TOPOLOGY: linear CLONE: HUMGS06011 | | , | | | |
|-----------|--|------------|------------|------------|------------|----------|
| 5 | SEQUENCE DESCRIPTION: GATCTTGGAG AGTTTCTCCT GNGTTCATCA TTGAGTAATG NCTGAGGTGA TAATNCATCC | GATTAAGTGA | AAATCCAGGA | GTATCCATCT | NCAGTTATGT | |
| 10 | SEQ ID NO:5032 SEQUENCE LENGTH:260 SEQUENCE TYPE:nucleic | acid | | | | |
| 15 | TOPOLOGY:linear CLONE:HUMGSO6013 SEQUENCE DESCRIPTION: GATCTAAAGC AGCCCTTTTT | | | | | |
| 20 | CTTAGAGGCA AAGAACAATT ATTGTATCTG TTTAGAAAAT ACCAAAACTG AAAATCAATA GCAAAATATT TTACATTAAA | GGGCTTTTCC | AAAAGCAAAC | AAAGATAGGT | TCCTCAGGTG | 180 |
| 25 | SEQ ID NO:5033 SEQUENCE LENGTH:85 SEQUENCE TYPE:nucleic TOPOLOGY:linear CLONE:HUMGS06014 | acid . | | | | |
| 30 | SEQUENCE DESCRIPTION: GATCTCTGGA GGTCGAGGCT CGATAGAGTG AGAACCTGTC | | CATGTTCGTG | TCACTACACT | NCAGCCTGGG | 60 85 |
| 35 | SEQ ID NO:5034 SEQUENCE LENGTH:352 SEQUENCE TYPE:nucleic TOPOLOGY:linear CLONE:HUMGS06015 | acid | | | | • |
| 40 | SEQUENCE DESCRIPTION: GATCCAGAAC ATGACAACAG CCACATTACC CTTACAAAAA ACTGTGAGTA TAAGCTACTT | CAGGCCCTCC | CCATGAGAGA | GCTACACGGC | AGGGCAGAC | |
| 45 | TTGCCTCTCC TGGAAGGTGT CCCNACTTCG GTAAAAGAAA TTTTGTATTT TTTTNTAAAT | NTAGGGAAAG | GCCATATACA | NNGNCAGACT | TTGTAGTTTA | |
| 50 | SEQ ID NO:5035 SEQUENCE LENGTH:206 SEQUENCE TYPE:nucleic TOPOLOGY:linear | acid | | | | |

| | CLONE: HUMGS06016 | | | | | |
|----|------------------------|------------|------------|---------------------|------------|-----|
| | SEQUENCE DESCRIPTION: | 0.0.0.000 | ammulaammu | MTN 1 CCTC 1 C | C1111TTCT | 60 |
| 5 | GATCTTAATG GCAAGAAGGC | | | | | 60 |
| 3 | CAGGCTCAAA CCACTTCTCA | | | | | |
| | NATAGATAGC AACAAGTTTT | | GAGGGNGAIA | AAAGGGGGAI | ACAANNGAIG | 206 |
| | TACAGAAATN NTTTCCTGGC | TGGNUN | | | | 200 |
| 10 | SEQ ID NO:5036 | | • | | | |
| | SEQUENCE LENGTH: 351 | | | | | |
| | SEQUENCE TYPE:nucleic | acid | | | | |
| | TOPOLOGY: linear | | | | | |
| 15 | CLONE: HUMGS06017 | | | | | |
| | SEQUENCE DESCRIPTION: | | m | A # C # T C A C C C | T101000101 | 60 |
| | GATCTGGCCA TGTATATGGT | | | | | |
| | AATTTCAATT CTNACATTTC | | | | | |
| | GAGGTATTAA GTAATGTTTA | | | | | |
| 20 | GTCTTTATAC CTTCAAAAAT | | | | | |
| | TCTGACTACC ATGTCTTTAA | | | | | 351 |
| | ACATTINGIN CCATTITCCA | GNAGTAGNCT | TTAACTINCC | GGIGCCNNNC | N | 201 |
| 25 | SEQ ID NO:5037 | | | | | |
| | SEQUENCE LENGTH: 131 | | | | | |
| | SEQUENCE TYPE: nucleic | acid | | | | |
| | TOPOLOGY: linear | | | | | |
| | CLONE: HUMGSO6018 | | | | | |
| 30 | SEQUENCE DESCRIPTION: | | | | | |
| | GATCCTGAGA CTATNTGCAT | | | | | |
| | TAACCCATGG GTTTAATGCA | GCAAGGAAAC | TTACAATGTC | CCINTATATA | TAACATGCAN | |
| | CTTGTTTTGG N | | | • | | 131 |
| 35 | SEQ ID NO:5038 | | | | | |
| | SEQUENCE LENGTH: 208 | | | | | |
| | SEQUENCE TYPE: nucleio | acid | | | | |
| • | TOPOLOGY:linear | | | | | |
| 40 | CLONE: HUMGS06020 | | | | | |
| | SEQUENCE DESCRIPTION: | | | | | |
| | GATCCTNCAG GAGATTCAGO | GTCTCCGCCT | GGAACACGAG | CAGGCCTCCC | AGCCCACCCN | 60 |
| | TGAGAAGGCA CAGCAGAACG | | | | | |
| 45 | GNATGAACTG GAGCAGAGG | | | | | |
| 40 | ANNTGGAAGA GCTGATGAA | | | | | 208 |
| | SEQ ID NO:5039 | | | | | |
| | SEQUENCE LENGTH: 150 | | | | | |
| 50 | SEQUENCE TYPE: nuclei | e acid | | | | |
| | TOPOLOGY: linear | | | | | |

| 5 | CLONE:HUMGSO6021 SEQUENCE DESCRIPTION: GATCTGAGTG ACAGGGTCAA CAACCTGACA TTGGTACTGT TTCAGCCTTG GGCATCTTCA | GCAATAAAGA | | | | 60 120 150 |
|----|--|--------------------------|--------------------------|--------------------------|--------------------------|------------------|
| 10 | SEQ ID NO:5040 SEQUENCE LENGTH:365 SEQUENCE TYPE:nucleic TOPOLOGY:linear | acid | | | | |
| 15 | CLONE:HUMGS06022 SEQUENCE DESCRIPTION: GATCTGCTGG GTTTTAAGGA CAATTGGTAC ATTTAAAGTC CTACAACAAC ACTAAACCTG | CCCCAACTAT AACTTTTCAA | GGGGAGGTAC CTCCGTTGGT | CAATTCTGGA GGTGGGAGGC | CANNNTGCCA AGCGGGCAGA | 180 |
| 20 | AATTTACTGT TGGCCACTGN TATAGGNACT GAAGGGGTCA TGAGAGACTA AAATNGTGGG NTGGN | ATGNATTAAA | CCTGTGATTA | GGTTGNTTTC | CTGTCATTTT | 300 |
| 25 | SEQ ID NO:5041 SEQUENCE LENGTH:147 SEQUENCE TYPE:nucleic TOPOLOGY:linear CLONE:HUMGS06023 | acid | | | | |
| 30 | SEQUENCE DESCRIPTION: GATCTTNACC TTATTCAGTC GTACTTACGC TGAGTGAAAG CCTCAAAATG AAGAAATCCG | ACCACTAGAT | | | | 60 120 147 |
| 35 | SEQ ID NO:5042 SEQUENCE LENGTH:98 SEQUENCE TYPE:nucleic TOPOLOGY:linear | acid | | | · | |
| 40 | CLONE:HUMGSO6024 SEQUENCE DESCRIPTION: GATCCGTCCT CATTTTATTG GAGCCTGGAA TAAATATGCT | | | AATNAGGGGG | CTGTCTACTA | 60 98 |
| 45 | SEQ ID NO:5043 SEQUENCE LENGTH:208 SEQUENCE TYPE:nucleic TOPOLOGY:linear | acid | | | | |
| 50 | CLONE: HUMGS 06025 | | | | | |

| | GATCTGTATG TNAATATCGC | CAAGCAGGAT | ATCATGTTGT | CCCTGGCAAA | CCTGGTGAGA | 60 |
|----|-----------------------|--------------------|------------|------------|------------|-----|
| | CTCAACCAAG CCCTTTTTCC | CCCAAGCAAG | AGGAAAATGG | AATCTNTGTA | TCAGTGTGGT | 120 |
| | TTTGATGACA CTGTTAAGTT | TNTACTTAAA | GAAAATTGGT | TTGAATAAAA | TGCATAAAAG | 180 |
| 5 | TTTATANTGC ATTNNATTGT | NNANNTGN | | | | 208 |
| | | | | | | |
| | SEQ ID NO:5044 | | | | | |
| | SEQUENCE LENGTH: 211 | | - | | | |
| 10 | SEQUENCE TYPE:nucleic | acid | | | | |
| | TOPOLOGY: linear | | | | | |
| | CLONE: HUMGS06026 | | | | | |
| | SEQUENCE DESCRIPTION: | | | | | |
| | GATCTTTGCC CACCTCTTCC | TCAGAGCCCC | CACTGAGGGG | CCGTAGCCCT | ATCTAGGGCT | 60 |
| 15 | GTGGAAGGAG CAGACTGGTT | CCTAACTCTC | TCCCTCCTCC | TGCCCACACA | CATCAAAAGA | 120 |
| | ATCTTCCCTA CACCCTTCTC | TGCCTTTATT | TTTTGATTTG | TGCAACTTGT | AACTAGGTGT | 180 |
| | TTATGGAGTA AAGGAGAATG | ${\sf GAAAAAAGAA}$ | A | | | 211 |
| | | | | , | | |
| 20 | SEQ ID NO:5045 | | | | | |
| | SEQUENCE LENGTH: 345 | | | • | | |
| | SEQUENCE TYPE:nucleic | acid | | | | |
| | TOPOLOGY: linear | | | | | |
| 05 | CLONE: HUMGS06027 | | | | | |
| 25 | SEQUENCE DESCRIPTION: | | | | | |
| | GATCTTGTTT ACAGCAGTGC | | | | | |
| | AACTGTGTCC TTTTAATTTT | | | | | |
| | TATGAAGGCA CTTCCTNTTT | | | | | |
| 30 | TACTTAAAGT ACTGNGAAGA | | | | | |
| | GGAANAAACT TTTTGGTGCT | CCAGTGTAGG | GCTATCTTGT | NNANAAANTG | TCAACAAGGG | 300 |
| | GGAAANGTAA GNCTGTCNAG | CTNGGGGATT | GGTCACTTGN | NTTAN | | 345 |
| | | | | | | |
| 35 | SEQ ID NO:5046 | • | | | | |
| | SEQUENCE LENGTH: 298 | | | | | |
| | SEQUENCE TYPE:nucleic | acid | | | <i>t</i> | • |
| | TOPOLOGY: linear | | | | | |
| | CLONE: HUMGS06028 | | | | | |
| 40 | SEQUENCE DESCRIPTION: | | | | | |
| | GATCTTATAA ATTTCCTGGG | | | | | |
| | TAATTTTNCT GTTTTTGCAA | | | | | |
| | TATTCTCAAA CTGGCAAACT | | | | | |
| 45 | ATGTGGCTCA TGAGTATAAC | - | | | | |
| | TTCTCCTNCA GAACAAGTGC | ANTTCAGAAG | GCAAGCTCTG | CATTCTACCT | TGNTTGAN | 298 |
| | and th No.50/8 | | | | | |
| | SEQ ID NO:5047 | | | | | |
| 50 | SEQUENCE LENGTH: 153 | | | | | |
| | SEQUENCE TYPE:nucleic | aclq | | | | • |
| | TOPOLOGY:linear | | | | • | |

| | CLONE: HUMGS06030 SEQUENCE DESCRIPTION: | | | | | |
|------|--|---|-----------------------------|-------------|-------------|-----|
| | GATCGGGGAG CCACAGGGTG | TCCAGACCCA | CCGCGACCCG | ACCATTCACC | AGAATCTCCC | 60 |
| 5 | CAGTCAGCTT CAGAGGTGCC | | | | | |
| | GCGGNAANCT GNCCGGGCCT | | | o incomutin | ddddii onuu | 153 |
| | doddinamor diidddador | ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,, | | | | 100 |
| | SEQ ID NO:5048 | | | | | |
| 10 | SEQUENCE LENGTH: 351 | | | | | |
| | SEQUENCE TYPE:nucleic | acid | | | | |
| | TOPOLOGY: linear | | | | | |
| | CLONE: HUMGSO6031 SEQUENCE DESCRIPTION: | | | | | |
| 15 | GATCAACATT CGCAATGCCC | CCAAACACTT | TAAGAAGCTG | CACACACTCC | ATGGCCCCAA | 60 |
| | GCACAGTCTC CTTATGCGTT | | | | | |
| | TTTTTNGTTT GCATCCTTTA | | | | | |
| | TGAAGTGTGT GCTGCTTACT | | | | | |
| 20 | GGACGNTATT TACTCAGCTA | | - | | | |
| | TATGGTGGTA ACACTTAAAG | TAGGTGGTTC | CGTGTGGTGT | TCTTCANTNN | N | 351 |
| | | | | | | |
| | SEQ ID NO:5049 | | | | | |
| 25 | SEQUENCE LENGTH: 124 | | | | | |
| | SEQUENCE TYPE:nucleic | acid | | | | |
| | TOPOLOGY: linear | | | | | |
| | CLONE: HUMGS06032 | | | | | |
| 30 | SEQUENCE DESCRIPTION: GATCAACAAA TTGCTCAACC | TCCAAAATCT | ተተ ሮል ተተ ላርልር | TTACCCACCC | CATCTCCCCT | 60 |
| 30 | GCTTTGGGTT TAAAAAAAAA | | | | | |
| | GGNN | AAAAAMITT | IIIIAACCHC | ANAMITUUAA | nanuuuunnu | 124 |
| | ddini | | | | | 161 |
| 35 | SEQ ID NO:5050 | | | | | |
| 00 | SEQUENCE LENGTH: 218 | | | | | |
| | SEQUENCE TYPE:nucleic | acid | | | | |
| | TOPOLOGY: linear | | | | | |
| | CLONE: HUMGS06034 | | | | | |
| 40 . | SEQUENCE DESCRIPTION: | | | | | |
| | GATCATGACT ACTGGGTTGT | | | | | 60 |
| | NCAACGGAAA TAGTTTATAT | | | | | |
| • | TAACCTTACT GATTTTTTAC | | | ACTGNAANTA | TTAGTTCTAN | |
| 45 | TAGCATTATG NCANTTACCT | AIGTTGUTTT | AIGAANGN | | | 218 |
| | SEQ ID NO:5051 | | | | | |
| | SEQUENCE LENGTH: 128 | | | | | |
| | SEQUENCE TYPE:nucleic | acid | | | | |
| 50 | TOPOLOGY: linear | | | | | |
| | CLONE - HIMCCOCOSE | | | | | |

| | SEQUENCE DESCRIPTION: | | | | | |
|------|-----------------------|------------|------------|------------|------------|-----|
| | GATCAATGCT GGCTTCCACG | CCTGANTTCT | ACCAAGTATG | CCACACCAAA | AAGGATTATN | 60 |
| | AAGAAATTGG ACCTAGCATT | TNTCGTCACA | ATCCAGTGTT | TGGAGTCATG | TCGTAAAATT | 120 |
| 5 | GNCNCCNN | | | | | 128 |
| | | | | | | |
| | SEQ ID NO:5052 | | | | | |
| | SEQUENCE LENGTH: 234 | | | | | |
| 10 · | SEQUENCE TYPE:nucleic | acid | | | | |
| 70 | TOPOLOGY: linear | | | | | |
| | CLONE: HUMGS06036 | | | | | |
| | SEQUENCE DESCRIPTION: | | | | | |
| | GATCTCATTC AGATTCCAAA | GAGAATCATT | TACAAGTTAA | TTTCTGTCTC | CTTGGTCCAT | 60 |
| 15 | TCCTTCTCTC TAATAATCAT | TTACTGTTCC | TCAAAGAATT | GTCTACATTA | CCCATCTCCT | 120 |
| | CTTTTGCCTC TGAGAAAGAG | | | | | |
| | TTCTGTGGTC CTCAGCCCTG | | | | | 234 |
| | | | | | | |
| 20 | SEQ ID NO:5053 | | | | | |
| | SEQUENCE LENGTH: 145 | | | | | |
| | SEQUENCE TYPE:nucleic | acid | | | | |
| | TOPOLOGY: linear | | | | | |
| | CLONE: HUMGS06038 | | | | | |
| 25 | SEQUENCE DESCRIPTION: | | | | | |
| | GATCTGCAAG GCATAGGCAA | GCCTCTTAGA | GAATCAGAAA | AGTGATTTGG | AAGGAACTTC | 60 |
| | AGCTGTTACT ACTTTGTTTA | | | | | |
| | AAATTAAACA CAAGAAAACC | | | | | 145 |
| 30 | | | | | | |
| | SEQ ID NO:5054 | | | | | |
| | SEQUENCE LENGTH: 124 | | | | | |
| | SEQUENCE TYPE:nucleic | acid | | | | |
| 05 | TOPOLOGY: linear | | | | | |
| 35 | CLONE: HUMGS06039 | | | | | |
| | SEQUENCE DESCRIPTION: | | | | | |
| | GATCAACTGA AGACCCCCAA | AGGCCCCTAC | TTGATGGTTT | TGAGGGGCAA | CATTGACTCA | 60 |
| | TTTGCCCCNT CCCTCTCGGA | ATGTTGGACA | AAGGGAATAA | AATTGGGGAT | ATGTCTACTT | 120 |
| 40 | CAAA | | | | | 124 |
| • | | | | | | |
| | SEQ ID NO:5055 | | | | | |
| | SEQUENCE LENGTH:118 | | | | | |
| 45 | SEQUENCE TYPE:nucleic | acid | | | | |
| | TOPOLOGY: linear | | | | | |
| | CLONE: HUNGS06040 | | | | | |
| | SEQUENCE DESCRIPTION: | | | | | |
| | GATCTAAAAC ANCTTCAGAC | TACCTANGAA | ATANTTNNAC | CAAATAAGAA | ACAGCACTGT | 60 |
| 50 | GGAATAAAAT ATACCATTGT | | | | | 118 |

| | SEQ ID NO:5056 | | | | | |
|-----------|-----------------------|--------------|---------------|------------------------------|-------------------------|-----|
| | SEQUENCE LENGTH: 316 | | | | | |
| | SEQUENCE TYPE:nucleio | acid | | | | |
| 5 | TOPOLOGY:linear | | | | | |
| | CLONE: HUMGS06041 | | | | | |
| | SEQUENCE DESCRIPTION | | | | 0100101010 | |
| | GATCTCCTAC TCCATCCAG | | | | | 60 |
| 10 | TGCTGGACCT CAGCATTCC | TTGATATCAG | TCCCCTTCAC | TGCAGAGCCT | TGCCTTTCCC | 120 |
| | CTCTGCCTGT TTCCTTTTCC | TCTCCCAACC | CTCTGGTTGG | TGATTCAACT | TGGGCTCCAA | 180 |
| | GACTTGGGTA AGCTCTGGG | CTTCACAGAA | TGATGGCACC | TNNNNNAACC | CTCATGGGTG | 240 |
| | GTGTCTGAGA GGCGTGAAG | GCCTGGAGCC | ACTCTGCTAG | AAGAGACCAA | TAAAGGCAG | |
| | GTGTGGAAAC GGCAAA | | | | | 316 |
| 15 | • | | | | | |
| | SEQ ID NO:5057 | | | | | |
| | SEQUENCE LENGTH: 106 | | | | | |
| | SEQUENCE TYPE:nuclei | e acid | | | | |
| 20 | TOPOLOGY: linear | | | | | |
| 20 | CLONE: HUMGS06042 | | | | | |
| | SEQUENCE DESCRIPTION | | | | | |
| | GATCTATTTC TTTNCACTT | TATAACTTTG | NAATAAATNC | CTCATCCCTT | AGACTAAGAG | 60 |
| | AGTGGGTGTC TGTGAAAAT | | | | | 106 |
| 25 | | | | | | |
| | SEQ ID NO:5058 | | | | | |
| | SEQUENCE LENGTH: 74 | | | | | |
| | SEQUENCE TYPE:nuclei | c acid | | | | |
| 30 | TOPOLOGY: linear | | | | | |
| 30 | CLONE: HUMGS06043 | | | | | |
| | SEQUENCE DESCRIPTION | | | | | |
| | GATCGAATTT AAAAGAACA | | ACTACGTTTC | AACAAAAATA | AAACTNGTTT | 60 |
| | TTTTCCCTCC TAAA | | | | • | 74 |
| 35 | 1111000100 1/111 | | | | | |
| | SEQ ID NO:5059 | | | | | |
| | SEQUENCE LENGTH: 325 | | | | | |
| | SEQUENCE TYPE:nuclei | c acid | | | | |
| 40 | TOPOLOGY: linear | C acra | | | | |
| | CLONE: HUMGS06044 | | | | | |
| | SEQUENCE DESCRIPTION | • | | | | |
| | GATCTCTGGC GCTGGCAGA | | • | CCANGCAAGO | NTGAGGACCC | 60 |
| | TCCCCTACCA AGGACCAGG | A AAACCACCAC | CTCAGGCTTC | TOPAGOCTNI | GGCAGGAACT | 120 |
| 45 | CLOCKLACKA AUGACKAGU | A AAAGCAGCAC | ACCCCTRCC | TACCTCAAAC | 100000000 3337334300 | 180 |
| | CAGGGCCCTG GAGCTGCTC | U UUUUAAUUU | . 000TCC+CT/ | TUCCIONNE | · CCACCTCTCT | 240 |
| | CCCGNTTAGC CCACCAGGC | A IGAGGCCAAC | , 01401004010 | I ACCAUGAUGU I NNNAAGAGTO | ACTTNACCCC | 300 |
| | AACTCTTATN TTCCACAGO | | CAICAUUACC | , mmanadiu | . WALLEY | 325 |
| 50 | GGGCAAGGNT TCTNGNAAC | A AAAUN | | | | JE |
| 50 | | | | | | |

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SEQ ID NO:5060

| 5 | SEQUENCE LENGTH:107 SEQUENCE TYPE:nucleic TOPOLOGY:linear CLONE:HUMGS06045 | acid | | | | |
|----|---|--------------------------|--------------------------|--------------------------|--------------------------|-----------|
| | SEQUENCE DESCRIPTION: GATCTGCCTN TAAAGCCAGT ATTGCACATT CCTTATCCTT | | - | | GTGTATAGNG | 60 107 |
| 10 | SEQ ID NO:5061 SEQUENCE LENGTH:112 SEQUENCE TYPE:nucleic TOPOLOGY:linear | acid | | | | |
| 15 | CLONE: HUMGSO6046 SEQUENCE DESCRIPTION: GATCTCAGAG CATTTCAATT | AGGGATGCTC | AAACGCAACT | TTTTCTACTT | CCCCATTTCA | 60 |
| | GGTGTGAGAT GTAACCCACC | TTNACCATAA | ATTGGCTTTN | NATAGTGCTA | AA | 112 |
| 20 | SEQ ID NO:5062 SEQUENCE LENGTH:298 SEQUENCE TYPE:nucleic | acid | | | | |
| 25 | TOPOLOGY:linear CLONE:HUNGSO6047 SEQUENCE DESCRIPTION: | | | | | |
| 30 | GATCACAACA TACAAATTCA TGTTTACTGT TAGGTCCTTG TGGACGTATT TTGTTGCCTA TTNGTTGTGT NCNNNCTACC | CATCTGTGGT AAAAAAAAAG | GCTAGGTGAG GNTGTTTGTN | TATGAGAAGA GGCGTTTTAA | TGTCAAGGAC ATATGCTTAT | 180 |
| | GTGTGTTATA CAGTNGTTAA | | | | | 298 |
| 35 | SEQ ID NO:5063 SEQUENCE LENGTH:62 SEQUENCE TYPE:nucleic | | | | | |
| 40 | TOPOLOGY: linear CLONE: HUMGSO6048 SEQUENCE DESCRIPTION: | aciu | | | | |
| | GATCTCCCAG TGAGCCATCA | CGATGCCCGN | TTTCAAATAA | ATNTTAATAT | TGTCACCAGA | 60 62 |
| 45 | SEQ ID NO:5064 SEQUENCE LENGTH:55 SEQUENCE TYPE:nucleic | acid | | | | |
| 50 | TOPOLOGY:linear CLONE:HUMGSO6049 SEQUENCE DESCRIPTION: GATCTNCTGC CATGATGCCT | ATTTGGTGTN | TTTCTAATTA | AAATGAAATC | ACAAA | . 55 |

| | SEQ ID NO:5065 SEQUENCE LENGTH:51 SEQUENCE TYPE:nucleic TOPOLOGY:linear | acid | | | | |
|----|---|------------|------------|---------------|---------------|-----|
| 5 | CLONE: HUMGS06050 | | | | | |
| | SEQUENCE DESCRIPTION: | · | | | | |
| | GATCGCATCA TTGCACTCTA | ACCTGGGCAA | CAAGAGCAAA | ACTCCATCAA | A | 51 |
| 10 | SEQ ID NO:5066 | | | | | |
| | SEQUENCE LENGTH:210 | | | | | |
| | SEQUENCE TYPE: nucleic | acid | | | | |
| | TOPOLOGY: linear | | | | | |
| 15 | CLONE: HUMGS06051 | | | | | |
| | SEQUENCE DESCRIPTION: | 404404444 | CCACCNTCTC | TACTTCC 4 4 4 | ************* | 60 |
| | GATCTGCTGA AAGGNAAGCA TCGGTAACTC AAGCTTCAGA | | | | | |
| | CATTGAGTAA TATGGGTGGT | | | | | |
| 20 | NCCTCTGAAA TNCNGTTGAG | | CAUALICAGI | WWW. | | 210 |
| | NCOLOTUMEN INONULLAND | Muldholdin | | | | |
| | SEQ ID NO:5067 | | | | | |
| | SEQUENCE LENGTH: 211 | | | | | |
| 25 | SEQUENCE TYPE:nucleic | acid | | | | |
| | TOPOLOGY: linear | | | | | |
| | CLONE: HUMGS06052 | | | | | |
| | SEQUENCE DESCRIPTION: | | 0001000110 | mmm00000000 | | co |
| 30 | GATCAAGTCA GCATTTGGGG | | | | | 60 |
| - | TGAAACCACC AGAGAATTTN TGTGTATATA TGTGTATTTG | | | | | |
| | AAAAAATTGC TCTGTCGGTC | | | INITIOCIAN | AATAATTUIC | 211 |
| | AAAAAIIGC ICIGICGGIC | GUICIIIUMI | N | | | 211 |
| 35 | SEQ ID NO:5068 | | | | | |
| | SEQUENCE LENGTH: 230 | | | | | |
| | SEQUENCE TYPE: nucleic | acid | | | | |
| | TOPOLOGY: linear | | | | | |
| 40 | CLONE: HUMGS06053 | | | | | |
| | SEQUENCE DESCRIPTION: | | | | am a . a | |
| | GATCTAGAAT CTTGTCCTCA | | | | | |
| | TGCAACAGTT TTCTTTTCAA TCATTTGTAT ACATTTACAT | | | | | |
| 45 | | | | | | 230 |
| 70 | ACTAATGAGA ACATGTTAGG | AAAIIDIADI | INNINNII | IIIICCAAA | | 230 |
| | SEQ ID NO:5069 | | | | | |
| | SEQUENCE LENGTH: 108 | | | | | |
| 50 | SEQUENCE TYPE: nucleic | acid | | | | |

| | TOPOLOGY:linear CLONE:HUNGSO6054 |
|----|--|
| | SEQUENCE DESCRIPTION: |
| 5 | GATCGCACGG ATGCAGCAGG AAGACCAGGA GGGGCCGCCT ACGTAGCCCC AGCTCCAGCC 60 |
| | ATCCACCCCN CAGCCCTTTN CTNCAACGTC ACCANTAAAT TTNTTTTN 108 |
| | AICCACCCCR CAGCCCITR CINCARCUIC ACCAMPAGAI TINTITIN |
| | SEQ ID NO:5070 |
| 10 | SEQUENCE LENGTH: 339 |
| • | SEQUENCE TYPE:nucleic acid |
| | TOPOLOGY: linear |
| | CLONE: HUMGS06055 |
| 15 | SEQUENCE DESCRIPTION: GATCACTGTT AATGATTTGC CTGTGGGACG CTCCGTGGAT GAGGCTCTGC GGCTGGTCCA 60 |
| | NNNNTTCCAG TACACAGACG AGCATGGGGA AGTTTGTCCC GCTGGCTGGA AGCTGGCAGT 120 |
| | GACACGATTA AGCCCAACGT GGATGACAGC AAGGAATATT TNTCCAAACA CAATTAGGCT 180 |
| | GGCTAACGGA TAGTGAGCTT GTGCCCCTGC CTAGGTGCCT GTNCTGGGTG TCCACCTGTG 240 |
| | CCCCCACCTG GNTGCCCTAT GCTGACCCAG GAAAGGCCAG ACCTGCCCCT CCAAACTCCA 300 |
| 20 | CAGTATGGGA CCCTGGAGGG CTAGGCCAAG GNCTTTTTN 339 |
| | CAGINIGGA CCCIGGAGGG CIAGGCCAAG GACIIIIIN 555 |
| | SEQ ID NO:5071 |
| 25 | SEQUENCE LENGTH: 102 |
| 20 | SEQUENCE TYPE:nucleic acid |
| | TOPOLOGY: linear |
| | CLONE: HUMGS06056 |
| | SEQUENCE DESCRIPTION: |
| 30 | GATCACAACC TCANCNAAGA CCACGANGAA GCCCNCAACA GCCACGCCCA CGACTGCCCG 60 |
| | GACGAGGCCG ACCACAGACG TAAGTGCAGG TAAAAATNGA GN 102 |
| | SEQ ID NO:5072 |
| 05 | SEQUENCE LENGTH: 231 |
| 35 | SEQUENCE TYPE:nucleic acid |
| | TOPOLOGY: linear |
| | CLONE: HUMGS06057 |
| | SEQUENCE DESCRIPTION: |
| 40 | GATCGCCTTA ATACCAGAAA TGATTAGAAG TGCTGATTTA GATTCAACAA ATACCATATG 60 |
| | TCCTTATCAT TTTTTGTAAG AAGAAATTGG TTAAGTCCTA ACTTTCAATG TGTACCCAAA 120 |
| | TACTTGTATT TTATGCTTTT NATAAAATGT AATTTTCAGC ATTANTACAC ATCCGATTAT 180 |
| | GCCTTATTTA TATATGGNGG ANTAAAGGTT ACCATGTTTA TACCTGTTAA A 231 |
| 45 | SEO ID NO-E072 |
| | SEQ ID NO:5073 SEQUENCE LENGTH:250 |
| | SEQUENCE TYPE: nucleic acid |
| | TOPOLOGY: linear |
| 50 | CLONE: HUNGS06059 |
| | SEQUENCE DESCRIPTION: |
| | DESCRIPTION. |

| | GATCTTGGTT TCATGTGTTT | TTGAAAGTGT | TATTGTTTAA | AAAATGAAAA | AAGCATATNT | 60 |
|------|------------------------|------------|---|------------|---------------------|----------|
| | GCTAAAGAGC TGTCAGGTTT | TCATTACTGA | CTCTGTANAA | TACACTGNTC | TTTGTGTACT | 120 |
| | GTGTGTTATT TTGCCCAGCT | NGCTGCATTA | GCCTTCAAAN | GTATTTGGGA | AACCTNAAGG | 180 |
| 5 | ATGAACCTAC AGTTTCTNGC | AAAGGTACCA | TTNCCTTTCC | TGGGGGTANT | TTNGGTCCCN | 240 |
| | GTNAACTGGN | | • | | | 250 |
| | | | | | | |
| | SEQ ID NO:5074 | | | | | |
| 10 | SEQUENCE LENGTH: 298 | | | | | |
| | SEQUENCE TYPE: nucleic | acid | | | | |
| | TOPOLOGY:linear | | | | | |
| | CLONE: HUMGS06060 | | | | | |
| 15 | SEQUENCE DESCRIPTION: | | | | | |
| 15 | GATCCTCGCG GGCCTCGGAG | | | | | 60 |
| | CTAAGGCGCA CTTGGCCGAA | CTTATGGTCC | AGGCAGGCCC | AGGCCTCCGT | GATGGCCGTG | 120 |
| | GTGTTGCTCA GCATGCACAC | | | | | |
| | GTGGGGGCT GGTAGTTAAT | | | | | |
| 20 | ATTGGGCTCA GAAATGGGGA | GCTCATTAAA | AATCAGAGCT | TGTGGNACCA | GTTNCAAA | 298 |
| | | | | | | |
| | SEQ ID NO:5075 | | | | | |
| | SEQUENCE LENGTH: 80 | | | | | ٠ |
| 25 | SEQUENCE TYPE:nucleic | acid | | | | |
| | TOPOLOGY: linear | | | | | |
| | CLONE: HUMGS06061 | | | | | |
| | SEQUENCE DESCRIPTION: | | 4 T 1 T T T T T T T T T T T T T T T T T | | 1 T 1 C C 1 T T C T | co |
| 20 | GATCACTGTG TCAAATGGAT | GGGAAAINII | AINTIAAIAI | AAACAGIAAA | AIAGCAIIGI | 60 80 |
| . 30 | TTTCACTTGC AGCTTTNAAA | | | | | 00 |
| | SEQ ID NO:5076 | | | | | |
| | SEQUENCE LENGTH: 210 | | | | | |
| | SEQUENCE TYPE:nucleic | acid | | | | |
| 35 | TOPOLOGY: linear | ucru | | | | |
| | CLONE: HUMGS06062 | | | | | |
| | SEQUENCE DESCRIPTION: | | | | | |
| | GATCTGTATG TNCAATATGG | TAGCTACTAG | CTACATACAT | CTATGAGCCA | GACACTTAAG | 60 |
| 40 | CACTTGANGT TTGGCTACTG | | | | | 120 |
| | CACTGGATTT TTGGNCTTAG | TATGGAAAAA | TATATTANGT | ACCTCANTTT | AAAAATACTT | 180 |
| | ATTACATGTT AATATTTTGG | TTGTANNNN | | | | 210 |
| | | | | | | |
| 45 | SEQ ID NO:5077 | | | | | |
| | SEQUENCE LENGTH: 91 | | | | | |
| | SEQUENCE TYPE:nucleic | acid | | | | |
| | TOPOLOGY: linear | | | | | |
| | CLONE: HUMGS06064 | | | | , | |
| 50 | SEQUENCE DESCRIPTION: | | | | | |
| | GATCATGTTG TATTTNATTT | TACTTATTTT | TTTTACATTT | CCCAAGGCTC | TGTCATCCAC | 60 |

| | CTTTTCATTA AATCATTCTA | CCAATCTCAA | A | | | 91 |
|----|---|------------|------------|------------|------------|------------------|
| 5 | SEQ ID NO:5078 SEQUENCE LENGTH:317 SEQUENCE TYPE:nucleic TOPOLOGY:linear CLONE:HUMGS06065 | acid | | | | |
| 10 | SEQUENCE DESCRIPTION: GATCAATGTA AATCCTCACC TACAGCAAAT GTTATTCAGA | TTTTGTACTT | GTCTATCTGT | TTACCTCAGT | GTAGATGATA | 120 |
| 15 | TGAGGATGGN ATAACTATGT AAGGTTTTAT TTGTNGTTGT AGAGCTAATG GCCATGCTTT GATTACTTTG CATAANN | TATTACTAGT | TCAGTCCCAA | ACTNACCCTG | TCCTTTTCAG | 240 |
| 20 | SEQ ID NO:5079 SEQUENCE LENGTH:75 SEQUENCE TYPE:nucleic TOPOLOGY:linear | acid | | · | | |
| 25 | CLONE:HUMGS06066 SEQUENCE DESCRIPTION: GATCTTTATT CTAACCTTTT TTTTTTTCAG AGAAA | TTTGTAAAAN | ATATCTATTG | ATTTCCATAT | GCAATAAACC | 60 75 |
| 30 | SEQ ID NO:5080 SEQUENCE LENGTH:139 SEQUENCE TYPE:nucleic TOPOLOGY:linear | acid | | | | |
| 35 | CLONE:HUMGS06067 SEQUENCE DESCRIPTION: GATCGCACCA CTGCACTCCA CGCAATTTTN CATTCGNTTC CTCAATTNCT GTACTTAAN | | | | | 60 120 139 |
| 40 | SEQ ID NO:5081 SEQUENCE LENGTH:125 SEQUENCE TYPE:nucleic TOPOLOGY:linear | acid | | | | |
| 45 | CLONE:HUMGSOGOG8 SEQUENCE DESCRIPTION: GATCTCATTT TCAGTTTAAG AAGTTTAATG GAATAATAGT TGAAA | | | | | |
| 50 | SEQ ID NO:5082 | | | | | |

| 5 | SEQUENCE LENGTH:284 SEQUENCE TYPE:nucleic TOPOLOGY:linear CLONE:HUMGS06069 | acid | | | | |
|----|---|--|--|--|--------------------------|-----------|
| 10 | SEQUENCE DESCRIPTION: GATCCTACCA TGGCAAGAAG GGCCTCTAAT GAATGATGAA CCCAGCACTG AGGAGGGGTT GGACCACCNT NACTGGCTCT CNCANTNCTA TGNTGACCTG | GGCCTGAAGG GCTCCGCCTG CCTGGCCCTG | TCAGATACCC GCCTGGCCAT GGAGAATCGC | CCCGAGCCCG ACTGTGTCCC TCCTGCAGCC | GCCAAGATGA ATCGGAGTGC | 180 |
| 15 | SEQ ID NO:5083 SEQUENCE LENGTH:280 SEQUENCE TYPE:nucleic TOPOLOGY:linear | acid | | | | |
| 20 | CLONE: HUMGS06070 SEQUENCE DESCRIPTION: GATCTAACCA TGACCTGTTT TTCTCTGGTC ATTTTTATT | | | | | 60 120 |
| 25 | AGGAATAAGT TATAAATGAA TAGCTGTCTG TGTAGGTGTG TTATATNATG NTTCAACTTT | CATGTNGTTG | CGAGTTTGTA | | | |
| 30 | SEQ ID NO:5084 SEQUENCE LENGTH:62 SEQUENCE TYPE:nucleic TOPOLOGY:linear CLONE:HUMGS06071 | acid | | | | |
| 35 | SEQUENCE DESCRIPTION: GATCATAATA TGAATNTCCC AA | ACTTATTAAT | AGCCTTTTAA | TAAATATATA | ATTAATTTCA | 60 62 |
| 40 | SEQ ID NO:5085 SEQUENCE LENGTH:57 SEQUENCE TYPE:nucleic TOPOLOGY:linear CLONE:HUMGS06072 | acid | | | | |
| 45 | SEQUENCE DESCRIPTION: GATCTATAAT CACCAGTGCA | CTCCACCCTG | GGTGACAGAA | TAAGACCCTG | GĊTGAAA | 57 |
| 50 | SEQ ID NO:5086 SEQUENCE LENGTH:68 SEQUENCE TYPE:nucleic TOPOLOGY:linear CLONE:HUMGS06074 | acid | | | | |

| | SEQUENCE DESCRIPTION: GATCTCAGGA TTNAAGCACA ATTGGAAA | | TACAGCAGGT | GCTCAATAAA | TACTTATCAA | 60 |
|----|--|------------|------------|-------------|------------------|-----|
| 5 | | | | | | |
| | SEQ ID NO:5087 SEQUENCE LENGTH:269 SEQUENCE TYPE:nucleic TOPOLOGY:linear | acid | | | | |
| 10 | CLONE: HUMGS06075 SEQUENCE DESCRIPTION: GATCAAGGTT TAGTTTAACT | TCCACTGTTA | AAATAAAGCT | TACATAGTTT | TCTTCCTTTG | 60 |
| | AAAGACTGTG CTGTCCTTTA | | | | | |
| 15 | CCGTTTTCAT TGTTCACTTC | | | | | |
| | CATGAGTATG GTGTCTATTA | | | | | |
| | ATTAGATNTT TCAGGGTGTA | | | 01111111111 | | 269 |
| | | | | | | |
| 20 | SEQ ID NO:5088 | | | • | | |
| | SEQUENCE LENGTH: 151 | | | | | |
| | SEQUENCE TYPE:nucleic | acid | | | | |
| | TOPOLOGY:linear | | | | | |
| | CLONE: HUMGS06076 | | | | | |
| 25 | SEQUENCE DESCRIPTION: | | | | | |
| | GATCGGCAGG GCAGGAATCT | | | | | |
| | GCTCCAGCCA GAAAAATAAG | | | GTATCAGGGC | TGAAACTGCT | 120 |
| | GGATGANTAA ACTATTTATT | AAAAACGGAA | A | | | 151 |
| 30 | SEQ ID NO:5089 | | | | | |
| | SEQUENCE LENGTH: 267 | | | | | |
| | SEQUENCE TYPE:nucleic | aaid | | | | |
| | TOPOLOGY: linear | aciu | | | | |
| 35 | CLONE: HUMGS06077 | | | | | |
| | SEQUENCE DESCRIPTION: | | | | | |
| | GATCTTGGCT TAATTTAATG | TATTAATCTC | TTTGTGCAAA | CATACTACCA | CC 4 TTT 4 4 4 4 | 60 |
| | ATGTTAGGGA GATGAGTTGC | | | | | |
| 40 | ANCATTCACA CCTCTGTCCC | | | | | |
| 40 | NTAGAATCTT GTTTNGTTGC | | | | | |
| | CGAATAGAGC CCAATTCNTA | | DOWN TOWN | MAAUUAATTU | | |
| | COMMINUNCE CONTICUIA | IAANUAN | | | | 267 |
| 45 | SEQ ID NO:5090 | | | | | |
| - | SEQUENCE LENGTH: 180 | | | | | |
| | SEQUENCE TYPE: nucleic | acid | | | | |
| | TOPOLOGY: linear | | | | | |
| | CLONE: HUMGS06078 | | | | | |
| 50 | SEQUENCE DESCRIPTION: | | | | | |
| | GATCTCAGGG AAAAATTTTA | ATCACTGTGT | ATAATGATAC | TGAACCTTGA | TTAATAACAG | 60 |

| | GTTTTCTTTC TGGGNAG | | | | | |
|----|----------------------|----------------|---------------|------------|------------|-----|
| | | | | | | |
| 5 | SEQ ID NO:5091 | | | | | |
| | SEQUENCE LENGTH: 12 | 1 | | | | |
| | SEQUENCE TYPE: nucl | eic acid | | | | |
| | TOPOLOGY:linear | | | | | |
| 10 | CLONE: HUMGS06079 | | | | | |
| ,, | SEQUENCE DESCRIPTI | ON: | | | | |
| | GATCTTCCTG GNACCCT | GAG GGTCGTCCTC | CAGCAGGGGC | TTCTTNGACC | CCTGTCTGAG | 60 |
| | GGGTCGCGTC TTAGTGG | GCG GGATTCTTT | CCCTTTGAAT | AAAAATGGAT | TCAAACCCAA | 120 |
| | A | | | | | 121 |
| 15 | | | | | | |
| | SEQ ID NO:5092 | | | | | |
| | SEQUENCE LENGTH: 37 | 8 | | | | |
| | SEQUENCE TYPE: nucl | eic acid | | | | |
| 20 | TOPOLOGY:linear | | | | | |
| | CLONE: HUMGS06080 | | | | | |
| | SEQUENCE DESCRIPTION | ON: | | | | |
| | GATCTGTNTT GTTCCTG | CAG CAAAAATCCT | CTATGGACAT | AGGAGGTGCT | GTGTCCCATG | 60 |
| | CCCTCTTGCC CTGNCAG | TGT CCCATGGGCC | CCCTTCTGCT | CCCTGCCCCC | TCCCTGCTAC | 120 |
| 25 | TGCTGATGCA CTGTCCT | CTC CCTGCAGCCC | CTGGCTTCCN | AGCCTTCCTC | CTGACCCCTT | 180 |
| | CCAACAGCCT TGGAACT | | | | | |
| | NCCAGTCTTG GNTGCTG | | | | | |
| | CTTCNGTTGN CNTGCAG | | AACCATGTGT | ATTGTACAGG | CGGGGGTTGT | |
| 30 | TAATTGNAGA AAACNNA | N | | | | 378 |
| | SEQ ID NO:5093 | | | | | |
| | SEQUENCE LENGTH: 81 | | | | | |
| | SEQUENCE TYPE: nucle | eic acid | | | | |
| 35 | TOPOLOGY: linear | ore acre | | | | |
| | CLONE: HUMGS06081 | | | | | |
| | SEQUENCE DESCRIPTION | ON- | | | | |
| | GATCACACCA CTGCACT | | CAGAGCAATA | TTGTGTCTCA | AAAATAATA | 60 |
| 40 | AATAAATAAA TAAATAG | | Ondrid Ordini | | | 81 |
| 40 | | - | | | | 01 |
| | SEQ ID NO:5094 | | | | | |
| | SEQUENCE LENGTH: 30 | 2 | | | | |
| 45 | SEQUENCE TYPE: nucl | eic acid | | | | |
| 45 | TOPOLOGY: linear | | | | | |
| | CLONE: HUMGS06083 | | | | | |
| | SEQUENCE DESCRIPTION | ON: | | | Ň | |
| | GATCACCCGG AAGTTCA | GGC TGAATTCTGA | AGGCAAACTT | GAGCAGACGG | TCTCCATGGC | 60 |
| 50 | AACCACGACA CAGCCAA | TNA CTCAGCATCT | TCACGTCACC | TACAAGAAGG | TGACCCCGTA | 120 |
| | AACCTAGAGC TTCTGGA | GCC CTCGGGAGGG | CCTGGCTACT | GTGCCTCAAC | GGTTCGGCTC | 180 |

| 5 | CTCAACAGAC AGTCCCTGCG GTGTTGTCCA GATGTTTCTG AA | | | | | |
|----|---|------------|------------|------------|------------|------------|
| 10 | SEQ ID NO:5095 SEQUENCE LENGTH:55 SEQUENCE TYPE:nucleic TOPOLOGY:linear | acid | | | | |
| | CLONE:HUMGS06084 SEQUENCE DESCRIPTION: GATCTGACTT CAGTTGTGCA | GATNACAGCA | TGATAAATGA | GTCGGGACCA | TCAAA | 55 |
| 15 | SEQ ID NO:5096 SEQUENCE LENGTH:145 SEQUENCE TYPE:nucleic | acid | | | | |
| 20 | TOPOLOGY:linear CLONE:HUMGSO6085 SEQUENCE DESCRIPTION: GATCAACAGA TGCTGGCAGA | AATGGCTGTN | TCCCTGGCCT | TGAGAAGCAG | ATNCAGCTCC | 60 |
| 25 | CTGTCCCCAG AGGCCTACAG GAGGCGGCGT CANGGAAGCT | TCATATGGTA | | | | 120 145 |
| 30 | SEQ ID NO:5097 SEQUENCE LENGTH:199 SEQUENCE TYPE:nucleic TOPOLOGY:linear | acid | | | | |
| | CLONE:HUMGS06086 SEQUENCE DESCRIPTION: GATCTCATGA GAATTCACTC TCAATCACTN TCCTCTCTCC | | | | | |
| 35 | ACACAGAGCC AGACTATATC TGNAAAGACT GTNCTNNCN | | | | | |
| 40 | SEQ ID NO:5098 SEQUENCE LENGTH:249 SEQUENCE TYPE:nucleic TOPOLOGY:linear | acid | | | | |
| 45 | CLONE:HUMGS06087 SEQUENCE DESCRIPTION: GATCACAGAC TGTAGAGTTT CATGAAGAAA TCGTGTAGGT | TGAAAAGTCA | | | | |
| 50 | CAGTGGCATA GACTCCTTCA CTTCATATCC CAAATTAGAG ANTCTCAAA | | | | | |

| | SEQ ID NO:5099 | | | • | • | |
|----|-----------------------|------------|--------------|------------|--|-----|
| | SEQUENCE LENGTH: 109 | | | | | |
| | SEQUENCE TYPE:nucleic | anid | | | | |
| 5 | TOPOLOGY: linear | aciu | | | | |
| Ü | CLONE: HUMGS06089 | | | | | |
| | | | | | | |
| | SEQUENCE DESCRIPTION: | 001010000 | ************ | 001010010 | CC L ACTION | |
| | GATCTGCAGT CCTGCCTCTG | | | | CCAACTICCI | 60 |
| 10 | GTACTGTTGC CCTTCTGATG | TTAATAAAAG | CAGCIGITAC | TCCCACAAA | | 109 |
| | 000 10 00 0100 | | | | | |
| | SEQ ID NO:5100 | | | | | |
| | SEQUENCE LENGTH: 341 | | | | | |
| 15 | SEQUENCE TYPE:nucleic | acid | | | | |
| .0 | TOPOLOGY:linear | | | | | |
| | CLONE: HUMGS06090 | | | | | |
| | SEQUENCE DESCRIPTION: | | 0.1.0.50000 | 0000000000 | ************************************** | • |
| | GATCACGGAC GTGCAGCTCG | | | | | 60 |
| 20 | TGTCGTTCTC TATCACTACG | | | | | |
| | CTTTCTCCGN CCCAGGGTTC | | | | | |
| | TTCACACTTC ACTTCATCCC | | | | | |
| | TTTCCAAACA ACTTTTATTT | | | | | |
| 25 | ACTGAATAGG GCCNAGTATA | GGGGCTTGCT | TTTCTACTCT | N | | 341 |
| | ODO ID NO. 5101 | | | | | |
| | SEQ ID NO:5101 | | | • | | |
| | SEQUENCE LENGTH: 117 | • • | | | | |
| | SEQUENCE TYPE:nucleic | acid | | | | |
| 30 | TOPOLOGY: linear | | | | | |
| | CLONE: HUMGS06091 | | | | | |
| | SEQUENCE DESCRIPTION: | | | | | |
| | GATCTGGTAC CGCAGTAGCG | | | | | 60 |
| 35 | CAGCCINCTT GTGTCCCGTG | AGGTTGTCAA | TAAACCTGCC | CTCGGGCTGC | CGGCAAA | 117 |
| | and the No. 5.00 | | | | | |
| | SEQ ID NO:5102 | | | | | |
| | SEQUENCE LENGTH: 151 | • • | | | | |
| 40 | SEQUENCE TYPE:nucleic | acid | | | | |
| 40 | TOPOLOGY: linear | | | | | |
| | CLONE: HUMGS06092 | | | | | |
| | SEQUENCE DESCRIPTION: | | | | | |
| | GATCCAAAAG GACTCATCTA | | | | | |
| 45 | ATTATGTTCA TGGAAAATNA | | | TTTTTATTTT | TAAATAAAA | |
| | GTAAATATTA AATAAAATTT | TTTAAATGAA | ٨ | | | 151 |
| | CPO ID NO. 5100 | | | | | |
| | SEQ ID NO:5103 | | | | | |
| 50 | SEQUENCE LENGTH: 86 | • • | | | | |
| | SEQUENCE TYPE:nucleic | acid | | | | |
| | TOPOLOGY: linear | | | | | |

| 5 . | CLONE:HUMGS06093 SEQUENCE DESCRIPTION: GATCAGCTTT TAATATCTGT CAAATAAAAA TTGAAATTGA AGATGGTATA TAAGATTTCA 60 GNAAATAAAC TACTCTGAAT ACTAAA |
|-----|--|
| 10 | SEQ ID NO:5104 SEQUENCE LENGTH:210 SEQUENCE TYPE:nucleic acid TOPOLOGY:linear CLONE:HUNGS06094 |
| 15 | SEQUENCE DESCRIPTION: GATCTAATCC GTNTCCCACA TGTCCCAGGG AATCCNAGGT CTGCCCTGAG CTTCCTGTGT 60 CCTTGGNAAA GTCGGTTAAT CTCTGGGCCT CACTGTCCTC ATCGCTGAGC TTGGGGACTT 120 GTAACANATG ATTTCTAAGT ATCTNCCAGC TTTGANTAGA GCATTTGTNT TGGGTGGCCA 180 GGCTTAANGT TTAAAGGCAT AANGAAAANN 210 |
| 20 | SEQ ID NO:5105 SEQUENCE LENGTH:242 SEQUENCE TYPE:nucleic acid TOPOLOGY:linear |
| 25 | CLONE:HUMGS06095 SEQUENCE DESCRIPTION: GATCATATTG GTCATGTCTA TTGGTGTATT ATTTCAGTAT CACCAATGTT TTCAGAAATA 60 CAGTACTAAT TCATCATTAA ACTCTTTGAA GTTAATATTT TCCTGCCTTC TAACTTATAG 120 ACTCAACTAT GTATCTGTAG TTTTTGGGAA TGGGGTGGTG TTTTTNNCTT TGTGTTGGGA 180 |
| 30 | AGTTATTGAG AAAACCTATA TAATANAATT NAANATTATA GTTTTAAAAA AANNNCANNN 240 NN 242 |
| 35 | SEQ ID NO:5106 SEQUENCE LENGTH:219 SEQUENCE TYPE:nucleic acid TOPOLOGY:linear |
| 40 | CLONE:HUMGS06097 SEQUENCE DESCRIPTION: GATCTGCCCT TGGCCTCCCA AAGTGTCGGA ANNACAGGCA TGNGCCACTG AGCCTGANCC 60 ACTTTAGCTA TTTTNAAAAA TAGGACCTAT TGTTTTGGAT TACTATCTGA GAATTTCATG 120 GATTCACTCC TGGGTATAGG AGNTAAGAAT ACGTTTAATT CATAACTTTT ATATTANCCA 180 ATATAGTAAA AAAATAAAGC TCACACATAC ANAANCAAA 219 |
| 45 | SEQ ID NO:5107 |
| 50 | SEQUENCE LENGTH:227 SEQUENCE TYPE:nucleic acid TOPOLOGY:linear CLONE:HUNGS06098 SEQUENCE DESCRIPTION: |

| | GATCTATTTT TTGGGCTTTT | AATATTCTGT | TCCATTGACC | TATNTCNCTT | NTCTTTTACC | 60 |
|----|-----------------------|------------|------------|------------|---------------|-----|
| | AATACCGCAA CATCTTGGTT | ACTGTAGCTT | CACGGTAAGT | CTTAAAACTT | GGATATTGTC | 120 |
| | AGTCCTCCAA CTATGTTCTA | CTCCTTCAAT | ATTGTGTTGG | TTATTCTGAG | TCTTGNNGGG | 180 |
| 5 | TCTCCATATA AATNGTAGAA | TTAGAAAAAA | AANNGNGGGG | GGGANNN | | 227 |
| | | | | | | |
| | SEQ ID NO:5108 | | | | | |
| | SEQUENCE LENGTH: 135 | | | | | |
| 10 | SEQUENCE TYPE:nucleic | acid | | | | |
| | TOPOLOGY: linear | | | | | |
| | CLONE: HUMGS06100 | | | | | |
| | SEQUENCE DESCRIPTION: | | | | | |
| 15 | GATCAGTTTG GACTCTGTAA | | | | | 60 |
| 15 | NACCCAATTG TTGAATAAAA | CTATAAATAT | GTTAATACCA | GCTTTTTCCA | ATAAAATAAC | 120 |
| | AAATGTTACA TCAAA | | | | | 135 |
| | 070 ID W2 5444 | | | | | |
| | SEQ ID NO:5109 | | • | | | |
| 20 | SEQUENCE LENGTH: 167 | | | | | |
| | SEQUENCE TYPE:nucleic | acid | | | | |
| | TOPOLOGY: linear | | | | | |
| | CLONE: HUMGS06101 | | | | | |
| 25 | SEQUENCE DESCRIPTION: | | | | | |
| | GATCTNATGG GTTTAAAAGN | | | | | |
| | TAAGATGTGC CTTGCTTCCC | | | | TGAGGCCTCC | |
| | CCTGCCATTC AGAACTGTGA | GTAAATTAAA | TCTCTTTNCT | TTATAAA | | 167 |
| 30 | SEQ ID NO:5110 | | | | | |
| | SEQUENCE LENGTH: 101 | | | | | |
| | SEQUENCE TYPE:nucleic | acid | | | | |
| | TOPOLOGY: linear | | | | | |
| | CLONE: HUMGSO6102 | | | | | |
| 35 | SEQUENCE DESCRIPTION: | | | | | |
| | GATCTTCTGC CACCATCAGG | GNCAAACGGG | TGCAGGAGGA | AAGTCACTGA | TGCCCAGATG | 60 |
| | TTTGCNTCCT GCACAGCTAC | | | | 1000,01101110 | 101 |
| | | | | | | |
| 40 | SEQ ID NO:5111 | | | | | |
| | SEQUENCE LENGTH: 172 | | | | | |
| | SEQUENCE TYPE:nucleic | acid | | | | |
| | TOPOLOGY:linear | | | | | |
| 45 | CLONE: HUMGS06103 | | | | | |
| | SEQUENCE DESCRIPTION: | | | | | |
| | GATCTGTGGC TACTTTCACA | CCACAACAGA | GTACCATGGT | TCTGACAGAG | ACTAGGAGAC | 60 |
| | ACAGTCTAAA TGACTTCTGA | CCTGGACCTT | TACTGAAAAT | CCTGCCAATC | ATTCTGTTGG | 120 |
| | CAAGANTGAT GTATTACTTT | TAGCAATAAG | AAACAAGTAA | CCTTTGCAGA | AA | 172 |
| 50 | | | | | | |
| | SEQ ID NO:5112 | | | | | |

| 5 | SEQUENCE LENGTH:74 SEQUENCE TYPE:nucleic acid TOPOLOGY:linear CLONE:HUMGSO6104 SEQUENCE DESCRIPTION: GATCTCCAAA GCTGTCCTCT GGCGTCCAGG AGTGCCTCTT ATGTGAGTCC TAATAAACTC 60 ATCTATTCAC CAAA 74 |
|----|---|
| 10 | SEQ ID NO:5113 |
| 15 | SEQUENCE LENGTH: 134 SEQUENCE TYPE: nucleic acid TOPOLOGY: linear CLONE: HUMGSO6105 |
| | SEQUENCE DESCRIPTION: |
| | GATCTNTTCC CACCCATAAA AAGCCCAGAG AACAAAAAGT TGGCCCAGGA AATGCAATTN 60 GGAAGCTGAA GAAGATTATA GTATTTNTNG CAGTCAAGAT TTGGAAAGTT ACCNACTAAG 120 |
| 20 | AAGCTACAAT ATNN 134 |
| 25 | SEQ ID NO:5114 SEQUENCE LENGTH:186 SEQUENCE TYPE:nucleic acid TOPOLOGY:linear CLONE:HUMGSO6107 |
| | SEQUENCE DESCRIPTION: |
| 30 | GATCTTGAAA TNAAACTAAG ATTTTCCTGG GGAAATGTTC AGATACAGTT TTGTGAACTG 60 TAAATCAAAA TACCTTTTNC TACAGTTTAT CTTTNATNTC CTGCAAATTT AGGAACATAT 120 TTCCTCGTTT NCACATTGAA TCTTAAGTTT AAGCNCTTCA TTTGGNATTT NGGCAATATA 180 TGNGAN 186 |
| 35 | SEQ ID NO:5115 SEQUENCE LENGTH:275 SEQUENCE TYPE:nucleic acid |
| 40 | TOPOLOGY: linear CLONE: HUMGSO6108 SEQUENCE DESCRIPTION: GATCTTINTG ACTAGAGTTA GTGTCCTAGG AAAACCAGAA CTCAGAACTT GCCTCCATGG 60 |
| | TTGAGTAACA AGCTGTACAA GAACCCCTTT TATCCCTGGA AGAGGCTGTG TATGAAACCA 120 |
| | ATGCCCAGGG TTTGAAGGGT GTTAGCATCC ATTNCAGGGG AGTGTGGATT GGCTGGCTCT 180 |
| 45 | CTGGTAGCAT TTTGTCCTNA CACACCCATC TACTATGTCC AACCGGTCTG TCTGCTTCCC 240 TCACCCCTTG CCCAATAAAG GNCAAGNNCT TCAAA 275 |
| 50 | SEQ ID NO:5116 SEQUENCE LENGTH:122 SEQUENCE TYPE:nucleic acid TOPOLOGY:linear |

| 5 | CTCTGGAATN TTTTGTATTT TCTCCCAGTA AAGCTTTTCT TCTCCCGAAA AAAAAAAAGA 1 | 60 120 122 |
|----|---|------------------|
| 10 | SEQ ID NO:5117 SEQUENCE LENGTH:94 SEQUENCE TYPE:nucleic acid TOPOLOGY:linear | |
| 15 | | 60 94 |
| 20 | SEQ ID NO:5118 SEQUENCE LENGTH:80 SEQUENCE TYPE:nucleic acid TOPOLOGY:linear | |
| 25 | | 60 80 |
| 30 | SEQ ID NO:5119 SEQUENCE LENGTH:274 SEQUENCE TYPE:nucleic acid TOPOLOGY:linear | |
| 35 | CLONE: HUMGSO6112 SEQUENCE DESCRIPTION: GATCTATTAT CTAGCTGCAA AGCCTGGCTT TGNTTTGNAA TTTTGTAAAA ATTTCATGGC ACCCAAGGTT TCTGNTTCTG ACCCAGCAGT GGTCCTGAAG AGAGCTGATG GCAAGTNTTG 1 TAGTCATTTT GATTTTAATT GAAGGGTGAG CATAACCTTG TGAACCAGCA CTAGCTTGTT 1 | |
| 40 | CCAAGCTGGA ATTTATCTAA TCTATTTTTG TGTTTAAAAA AGCTGTACCT ACCAAATAAA 2 TAAATAGTTT ATAAAATGTA TTACTTAAGG TAAA | 40 74 |
| 45 | SEQ ID NO:5120 SEQUENCE LENGTH:350 SEQUENCE TYPE:nucleic acid TOPOLOGY:linear CLONE:HUMGS06113 | |
| 50 | SEQUENCE DESCRIPTION: GATCTTTGAA GATATCCTCA ACGTGAGGCT CTNCTGCCAT GAAGGTGAAG ATTAAGTGCT GGAACGGCGT GGCCACTTGG CTCTGGGTGG CCAACGATGA GAACTGTGGC ATCTGCAGGA 1 TGGCATTTAA CGGATGCTGC CCTGACTGCA AGGTGCCCGG CGACGACTGC CCGCTGGTGT 1 | |

| | GGGGCCAGNG NNCCCA | CTGC TTCCACATG | ATTGCATCCT | CAAGTGGCTG | CACGNACANC | 240 |
|----------------|--------------------|----------------|--------------|-----------------------|---|-------|
| | AGGNGCAGCA GCACTG | NCCC ATGGTGCCG | N CAGGAATGGA | AGTTCAAGGA | GTGAGGCCCG | 300 |
| | ACCINGNNIC TAGNIG | GGAG GGGNATNCT | AAGACTTCTT | TNCTTNATTN | | 350 |
| 5 | | | | | | |
| | SEQ ID NO:5121 | | | | | |
| | SEQUENCE LENGTH: 3 | 60 | | | | |
| | SEQUENCE TYPE: nuc | leic acid | | | | |
| 10 | TOPOLOGY:linear | | | | | |
| | CLONE: HUMGS06114 | | | | | |
| | SEQUENCE DESCRIPT | | | | | |
| | GATCTTATTC AGTCTG | | | | | 60 |
| 15 | GCCTTTGCAT ACAAGA | | | | | |
| | GATGCTGTTT CCAAAG | | | | | |
| | CGGAAGGAGA AAGATG | | | | | |
| | TACANCANNT TCCATC | | | | | |
| | CTTCTTCATA TTGGAA | GAAT TTCAACCCC | CAGTGAACTA | CANATTTGTC | CATAAGTTGN | 360 |
| 20 | 070 ID NO 5100 | | | | | |
| | SEQ ID NO:5122 | | | | | |
| | SEQUENCE LENGTH: 8 | | • | | | |
| | SEQUENCE TYPE:nuc | leic acid | | | | |
| 25 | TOPOLOGY: linear | | | | | |
| | CLONE: HUMGS06115 | t ou . | | | | |
| | SEQUENCE DESCRIPT | | | TT 10151010 | 10000011711 | |
| | GATCTGGTCA CACCTA | | ACIGAAAIGI | TTAGATACAC | AGCCCAATAA | |
| 30 | ATTCTCTTTA TAAAAC | ACAA GUAGIAAA | | | | 88 |
| 30 | SEQ ID NO:5123 | | | | | |
| | SEQUENCE LENGTH: 1 | 77 | | | | |
| | SEQUENCE TYPE: nuc | | | | | |
| | TOPOLOGY: linear | ieic aciu | | | | |
| 35 | CLONE: HUMGS06116 | | | | | |
| | SEQUENCE DESCRIPT | I ON · | | | | |
| | GATCAGGCCA CATAAG | | CAGGGGTGGG | ACACAGCTNG | GGGAGTCCAG | 60 |
| | ACCAGGGCAG GGAAAG | | | | | |
| 40 | CAGCTGGTGC TGCTTC | | | | | 177 |
| | | | | 101 1 11100011 | *************************************** | • • • |
| | SEQ ID NO:5124 | | | | | |
| | SEQUENCE LENGTH: 6 |) | | | | |
| 45 | SEQUENCE TYPE: nuc | | | | | |
| · - | TOPOLOGY: linear | - | | | | |
| | CLONE: HUMGS06117 | | | | | |
| | SEQUENCE DESCRIPT | ON: | | | | |
| | GATCTTGGAC CTCCCA | | GAGAAATAAA | TNTGTTTTGT | TTCAGCTAAA | 60 |
| 50 | | | | | | |
| | SEQ ID NO:5125 | | | | | • |

| 5 | SEQUENCE LENGTH:54 SEQUENCE TYPE:nucleic TOPOLOGY:linear CLONE:HUMGSO6118 SEQUENCE DESCRIPTION: GATCTGGCTG ACTCACACGC | | TAAACAAACA | GCAACATAAG | GAAA | 54 |
|----|---|--------------------------|--------------------------|--------------------------|------------|------------------|
| 10 | SEQ ID NO:5126 SEQUENCE LENGTH:316 SEQUENCE TYPE:nucleic TOPOLOGY:linear | acid | | | | |
| 15 | CLONE:HUMGSO6119 SEQUENCE DESCRIPTION: GATCTCCCAT GGGTCACCCA TGATGCCCCC CCATGGATAC | ACTGGCCCTC | CACGACCCCC | ACCCTATGGC | TACCAGCGGG | |
| 20 | GGCCTCTCCC TNCACCCAGA GAGGCCCTCT NCCTCAGTAA TTTTCTATTC CTTGGACCAA TCNCNTTTNA GCACNN | ATTCACATTT | TNCTTCCTNC | TGTTACATTT | TNCNAATATN | 240 |
| 25 | SEQ ID NO:5127 SEQUENCE LENGTH:222 SEQUENCE TYPE:nucleic TOPOLOGY:linear | acid | | | • | |
| 30 | CLONE:HUMGSO6122 SEQUENCE DESCRIPTION: GATCCTGTTC CTGTCACCAT TGCACCACAC TCTGCCAGGT ACCCCTCCTT CATTGTTCC | CCTGCATGCT CCTCATACAT | GTGAGCCATC CTCCCTCTGC | AGGACTCTTG CAAGGAGTGT | TCCTGGTGAG | 180 |
| 35 | CTTTCTACCC TAGAATAAAC | ATCTGGGTTC | TCCAGTCAGA | AA | | 222 |
| 40 | SEQ ID NO:5128 SEQUENCE LENGTH:130 SEQUENCE TYPE:nucleic TOPOLOGY:linear CLONE:HUNGSO6123 SEQUENCE DESCRIPTION: | acid | | | | |
| 45 | GATCGACTGG AACAAAGTGA ACATTTCTTA TTTACGATTT GCAACATANN | | | | | 60 120 130 |
| 50 | SEQ ID NO:5129 SEQUENCE LENGTH:160 SEQUENCE TYPE:nucleic TOPOLOGY:linear | acid | | | | |

| | CLONE: HUMGS06125 | | | | | |
|------------|-----------------------|------------|------------|------------|------------|-----|
| | SEQUENCE DESCRIPTION: | | | | | |
| | GATCTTAGAG CTAAAAAGGA | CTGTAAAAAT | TACCCAGAAC | AGCGTCCTCA | GACTTAACCT | 60 |
| 5 | TCTGCAAGTT ATGTCTGTAT | ATAAGANGAT | TCTAATTGCT | AACTGTTTAT | ACTTTNCTGN | 120 |
| | ATAAAATAGT TGTTTCTAAT | TAAAANGTAG | CCAAGCTAAA | | | 160 |
| | SEQ ID NO:5130 | | | | | |
| | SEQUENCE LENGTH: 349 | | | | | |
| 10 | SEQUENCE TYPE:nucleic | anid | | | | |
| | TOPOLOGY: linear | aciu | | | | |
| | CLONE: HUMGS06126 | | | | | |
| | SEQUENCE DESCRIPTION: | | | | | |
| 15 | GATCTTCGTT CAGGGCATCA | TOTOGGACAT | CAACACCTTT | NACCACTCCC | CACTCCACCT | e o |
| | GGGAAAGCAG CTGGCTAAGA | | | | | |
| | TCACGACGCT TCTACCAATG | | | | | |
| | CCAATAAACT CGTGCTCATC | | | | | |
| 20 | NCTNCCCGGA GCCGGCACTG | | | | | |
| 20 | GNTTTTGNNC NNCGAGCCCT | | | | MINGILGIOG | 349 |
| | diffitunic incumecet | TINGCHOOD | ANUNCTIUUT | CITCHOOM | | 343 |
| | SEQ ID NO:5131 | | | | | |
| | SEQUENCE LENGTH: 148 | | | | | |
| 25 | SEQUENCE TYPE:nucleic | acid | | | | |
| | TOPOLOGY:linear | | | | | |
| | CLONE: HUMGS06127 | | | | | |
| | SEQUENCE DESCRIPTION: | | | | | |
| 30 | GATCCTCAAG GACCTGTAAT | TNTTTGGTAT | TTAAAATTAA | AATAACATTA | TTTTTATTTT | 60 |
| | GANTTTTTT CAAACAGTAA | GAATAATATA | TCAGCAGCAT | GTATCTGCCA | ATCATATGTA | 120 |
| | ATAAATTNTT TATTTTGCCA | AAACCAAA | | | | 148 |
| | SEQ ID NO:5132 | | | | | |
| 35 | SEQUENCE LENGTH: 101 | | | | | |
| | SEQUENCE TYPE:nucleic | acid | | | | |
| | TOPOLOGY: linear | acru | | | | |
| | CLONE: HUMGS06128 | | | | | |
| 40 | SEQUENCE DESCRIPTION: | | | | | |
| | GATCTAATAC AAGANCTAGC | AAAGCAAAAG | THTTTGCAAG | TGACAGCATA | AAGACGGANC | 60 |
| | ACAACAAATC CTTCCTGNAG | | | | | 101 |
| | | | | | | |
| 45 | SEQ ID NO:5133 | | | | | |
| | SEQUENCE LENGTH: 347 | | | | | |
| | SEQUENCE TYPE:nucleic | acid | | | | |
| | TOPOLOGY:linear | | | | | |
| 50 | CLONE: HUMGS06129 | | | | | |
| V 0 | SEQUENCE DESCRIPTION: | | | | | |
| | GATCCTCATT CTTTCCCCCG | TACAGTGGAA | AACATCTTTN | ATGTTTCCTT | CATTATACGG | 60 |

| | GATGGTTTTN CAAGAATAAG | ACTTGACCAA | GACCGACTGC | CAGTAATAGA | GCCTGTNAGT | 120 |
|----|-------------------------------------|---------------|------------|------------|------------|-----|
| | ATTAATGAAG AAAATNAGGG | ATTTGAACAT | AACACACAAG | TTAGAAATCA | AGGAATTATA | 180 |
| | GCTTTGAGTT ACCGTGACTG | GGNGGNGATT | GTGAAGACCT | TTTGAGATTT | CAGAGCCTGT | 240 |
| 5 | GATTACTCCA AGTCAGAGGC | AGCAGNNGNC | AAGTNCTTTG | NTTGCTAGCT | GAAAGGACTT | 300 |
| | AAATGGNTAG TGAAGGTCCA | AAACCGGGNA | AGCGGCATNG | TGTTGGN | | 347 |
| | SEQ ID NO:5134 | | | | | |
| 10 | SEQUENCE LENGTH: 72 | | | | | |
| | SEQUENCE TYPE:nucleic | acid | | | | |
| | TOPOLOGY:linear | | | | | |
| | CLONE: HUMGS06130 | | | | | |
| | SEQUENCE DESCRIPTION: | | | | | |
| 15 | GATCACACTG CAGTTTCCAT | GTTAGCACTG | TGGATGGGTT | TTNAATCAAT | AAAAACTGGG | 60 |
| | GGTTTCTTCA AA | | | | | 72 |
| | SEQ ID NO:5135 | | | | | |
| 20 | SEQUENCE LENGTH: 203 | | | | | |
| | SEQUENCE TYPE:nucleic | acid | | | | |
| | TOPOLOGY: linear | | | | | |
| | CLONE: HUMGS06131 | | | | | |
| 25 | SEQUENCE DESCRIPTION: | | | | | |
| | GATCTGTAAA ATAAAAACTC | | | | | 60 |
| | AAGAACAATC TTAATAGAAA | | | | | |
| | TTGCTAAATG ANTTCTTTTT | | TTGTTTTTNA | GNAATTGGGT | GAAAANNCAA | |
| | CTGANATGAG ATTATTTATN | ATN | | | | 203 |
| 30 | and the No Cone | | | • | | |
| | SEQ ID NO:5136 | | | | | |
| | SEQUENCE LENGTH: 129 | | | | | |
| | SEQUENCE TYPE:nucleic | acid | | | | |
| 35 | TOPOLOGY:linear CLONE:HUMGS06133 | | | | | |
| | SEQUENCE DESCRIPTION: | | | | | |
| | GATCTTAGAT TTNATGAAGC | ACAGTATGCA | CCTACCCCTA | ATGGGGGAAG | ATCCTAATAT | 60 |
| | AAAAGCAAGA AGTATTTTT | | | | | |
| 40 | CTTNCCTTN | IIIIIIIIIIIII | | Turnerundu | MIGCCCICCC | 129 |
| | 01111001111 | | | | | 123 |
| | SEQ ID NO:5137 | | | | | |
| | SEQUENCE LENGTH: 270 | | | | | |
| 45 | SEQUENCE TYPE:nucleic | acid | | | | |
| - | TOPOLOGY:linear | | | | | |
| | CLONE: HUMGS06136 | | | | | |
| | SEQUENCE DESCRIPTION: | | | | | |
| | GATCACCTGA GGTCGGGAGT | TCGAGACCAG | CCTGACCAAC | ATGGAGAAAC | CCCATTTCTA | 60 |
| 50 | CTAAAAATAC AAAATTAGTC | AGGCATGGTG | GCGCATGCNT | GTAATCCCAG | CTACTTGGGA | 120 |
| | GGCTGAGGCA GAAGAATCGC | TTGAAACTGG | GAGGCGGAGG | TTGCGGTGAG | CCGAGANCAT | 180 |

| | GCCATTGCAC TCCAGCCTGG GCAGCAAGAG TGAAGCTCCA TCTAAAAATA AATAANTAAA TAAATAANTA ANCCCTCANA NNNAAAAATN | 240 270 |
|----|---|-------------------------|
| 5 | SEQ ID NO:5138 SEQUENCE LENGTH:51 SEQUENCE TYPE:nucleic acid TOPOLOGY:linear CLONE:HUMGS06137 SEQUENCE DESCRIPTION: | |
| | GATCTGTAGG GGAGGGAGTT CAAATAAAGC TTTATTTTTT TCATTTTCAA A | 51 |
| 15 | SEQ ID NO:5139 SEQUENCE LENGTH:190 SEQUENCE TYPE:nucleic acid TOPOLOGY:linear CLONE:HUMGS06138 | |
| 20 | SEQUENCE DESCRIPTION: GATCTGGGCT CCCTGACTTT CTGAAGCTAG AAAAAGGTTG TGTCTCCCAA CCACCTTTCC ATCCCCAGCC CCTCCATCC CTGGAGCACT CTGCCGCTCA AGAGCTGGTT TGTTAATTAT TGTTAGACTT TGCCATTGTN TTCTTTTGTA CCTGAAGCAT TTTGAAAATA AAGTTTACTT | 60 120 180 |
| 25 | AAGTTATAAA | 190 |
| 30 | SEQ ID NO:5140 SEQUENCE LENGTH:199 SEQUENCE TYPE:nucleic acid TOPOLOGY:linear CLONE:HUMGSO6139 SEQUENCE DESCRIPTION: | |
| 35 | GATCGGGAGG ACCTGTATGC CTGACCGTTT CCCTGCCTCC TGCTTCAGCC TCCCGAGGCC GAAGTCTCAG CCCCTCCAGA CAGGCCGCTG ACATTCAGCA GTTTGGCCTC TTTCCCTCTG I TCTGTGCCTTG TGTTGTTGAC CTCCTGATGG CTTGTCATCN TGAATAAAAT ATANTAATAA I ATTTNGTATA AATAGGAAA | 60 120 180 199 |
| 40 | SEQ ID NO:5141 SEQUENCE LENGTH:312 SEQUENCE TYPE:nucleic acid TOPOLOGY:linear | |
| 45 | CLONE: HUMGSO6141 SEQUENCE DESCRIPTION: GATCCAACCA CCTCAGCCTC CCAAAATGCT GGGATTATAG GCGTGAGCAC TTGCACCTGG | 60 |
| 50 | CAAAAAAATT TTTTTTAAAA AAGGAGAAAG CAGTTTAACC ACAAACAGTG AAACAGAGCT 1 GGCAGACGCC TGAAACTCCA TGGAACCATG CAGCTGTACC CTAGGGCTCC TCCCAGGAAA 1 AGAGAGATGT CAACGTGGCC CAAGGTGTCC TGAAGCACTG GGATTGGNTT ANCTCGAGCG 2 NTGGCCTTCC CAGCCCTNCG TGCTGCAGAG CCTCTGCTCG CTAGGCTNCC TTCATNCTNA 3 CTCTGTGTGC TN | 80 |

| | SEQ ID NO:5 | | | | | | |
|-----------|----------------|------------|------------|------------|------------|------------|-----|
| | SEQUENCE LE | NGTH: 229 | | | | | |
| | SEQUENCE TY | | acid | | | | |
| 5 | TOPOLOGY: li | | | | | • | |
| | CLONE: HUMGS | 06142 | | | | | |
| | SEQUENCE DE | SCRIPTION: | | | • | | |
| | GATCTAAGAC | | | | | | 60 |
| 10 | CTCCTCCTGG | AGTCTAATTT | CCTTGGCCCT | CTGAGCCTTT | TGAGTCTGGG | CCCTGGTCCA | 120 |
| | ATGCTGCTGT | | | | | GTTTGTTGAT | 180 |
| | TCTTGTCTGG | CTAATAAATC | ANCACCAACT | GNCTTCTCCN | ACAGGGAAA | | 229 |
| | SEQ ID NO:5 | 143 | | | | | |
| 15 | SEQUENCE LE | NGTH: 332 | | | | | |
| | SEQUENCE TY | PE:nucleic | acid | | | | |
| | TOPOLOGY: 1i | near | | | | | |
| | CLONE: HUMGS | 06144 | | | | | |
| 20 | SEQUENCE DE | SCRIPTION: | | | | | |
| | GATCTAAGAT | TATTCCCATG | AGAAATGTTG | AATTTATGAA | GAATAGATTT | TAAGGCTTTG | 60 |
| | AAAATGGTTA . | ATTTCTCAAA | AACATCAATG | TCCAAACATC | TACCTTTTTT | CATAGGNGTA | 120 |
| | GACACTAGCA . | AGCTGGNCAA | ACTATCACAA | AAGTATTTGT | CACACATAAC | CTNTGGTCTG | 180 |
| | TTGCTGATTA | NTACAGTACT | TTTTCTTTGT | GTGATTCTNA | ACATTATAGC | ACAAGTATTA | 240 |
| 25 | TCTCAGTGGG | TTATCCGGAA | TAACATCTGA | AAGNGGGGTT | CATCTNTGGT | NGNGTTTGCT | 300 |
| | CNNTAAACTA | GNGTNTCTCC | TGGTCCCANT | GN | | | 332 |
| | SEQ ID NO:5 | 144 | | | | | |
| 30 | SEQUENCE LE | NGTH: 275 | | | | | |
| | SEQUENCE TY | PE:nucleic | acid | | | | |
| | TOPOLOGY: 1 is | near | | | | | |
| | CLONE: HUMGS | 06145 | | | | | |
| 35 | SEQUENCE DE | SCRIPTION: | | | | | |
| 50 | GATCACATCA | CGGAATATTC | TTTGCCTTTC | CACTTTCCAG | GAAATCTCTC | GGACTGGGCT | 60 |
| | AGCCTCCTTG | TGTGTGATGA | AAGATGGGCT | ATATTTCAGA | ACANAGTGCT | GTGTTGTCAT | 120 |
| | GATTTGCCTG | GACTCCCAGG | GCGTCTCTTA | CCCAACTTGA | TAACGATGCT | GTTCATTAGC | 180 |
| | AGCCTGTGTT | | | | TCATAAGCAA | TTTTCTGTGT | 240 |
| 40 | GTAGGATAAA . | ATANNCCATC | TTGTATNATT | NCAAA | | | 275 |
| | SEQ ID NO:5 | 145 | | | | ~ | |
| | SEQUENCE LE | NGTH:92 | | | | | |
| 45 | SEQUENCE TY | PE:nucleic | acid | | | | |
| ·- | TOPOLOGY: lin | near | | | | | |
| | CLONE: HUMGS | 06146 | | | | | |
| | SEQUENCE DE | SCRIPTION: | | | | | |
| | GATCTCTTTT | CAAGTTCACT | CATTCTTTCT | TCTGTAATGT | TCAATCTCTC | TTAAGAAAGT | 60 |
| 50 | CCAAATAAAT ' | TTTTCATTTC | AGAGAGTGGA | AA | | | 92 |

| | SEQ ID NO:5146 | | | | | |
|----|----------------------|---------------|------------|---------------------|---------------|-----|
| | SEQUENCE LENGTH: 323 | 3 | | | | |
| | SEQUENCE TYPE:nucle | | | | | |
| 5 | TOPOLOGY:linear | | | | | |
| | CLONE: HUMGS06148 | | | | | |
| | SEQUENCE DESCRIPTION | N: | | | | |
| | GATCTGGGCA TTAAGTCA | | AGCTTTCACA | AGTOTOCTAG | ACACTCCCCA | 60 |
| 10 | CGGGAAACTC AAGGAGGT | | | | | |
| 70 | TATTGCACTA GGAATNCT | | | | | |
| | CAACTTGCCA AAATNTTT | | | | | |
| | AATTTGGCAA AACAAAGT | | | | | |
| | NACAATGGTG NCGAACAT | | TITUCTUONI | MIIACACAIG | IGCIGATONI | 323 |
| 15 | monitodia nonneciti | MA GIN | | | | 323 |
| | SEQ ID NO:5147 | | | | | |
| | SEQUENCE LENGTH: 347 | | | | | |
| | SEQUENCE TYPE:nucle | | | | | |
| 20 | TOPOLOGY: linear | 10 4014 | | | | |
| | CLONE: HUMGS06150 | | | | | |
| | SEQUENCE DESCRIPTIO | N - | | | | |
| | GATCTTTTGA GTGGAGGT | • | CAAGNAGGGC | AGGACACTTA | GCAGGCACTG | 60 |
| | AGCAAGCAGG CCCCCACC | | | | | |
| 25 | AATTGCCTTG GGATTTCC | | | | | |
| | TCTNAGTTGA GGAGCCTT | | | | | |
| | TNCAGCACAA TCCCAGCG | | | | | |
| | GGGTTNCTAA ATNNNNCG | | | | didoini toini | 347 |
| 30 | | | | G1 111111111 | | 311 |
| | SEQ ID NO:5148 | | | | | |
| · | SEQUENCE LENGTH: 388 | | | | | |
| | SEQUENCE TYPE:nucle | | | | | |
| 35 | TOPOLOGY:linear | | | | | |
| 33 | CLONE: HUMGS06151 | | | | | |
| | SEQUENCE DESCRIPTION | N: | | | | |
| | GATCTGCCAT ACCACTGT | GA CTGCATTGAA | AGATGTCCCT | TTCTCTCTCT | GCCAGTCGGT | 60 |
| | CGGTGTGGGA CAAAACAC | | | | | |
| 40 | TCTCATGTAC CCAGAGGA | | | | | |
| | TTTCAACACT CCTCCCCC | | | | | |
| | TCTTAGTGGA TGTTGCAC | | | | | |
| | ACAGNTTAAC CCNATTTT | | | | | |
| 45 | TAGAAGGGAA AGAGATTG | | | | | 388 |
| | SEQ ID NO:5149 | | | | | |
| | SEQUENCE LENGTH: 308 | | | | | |
| | SEQUENCE TYPE:nucle: | | | | | |
| 50 | TOPOLOGY: linear | 6014 | | | | • |
| | | | | | | |

| | CLONE: HUMGS06152 | | | | | |
|----|---------------------|----------------|------------|------------|------------|-----|
| | SEQUENCE DESCRIPTI | ON· | | | | |
| | GATCTATAAT GGGATAC | | AGCAACTCCT | ATATAGAAAG | TTTTAACTGA | 60 |
| 5 | ATATGTTACA TATANGA | | | | | - |
| | AAATTTACTC TGCTTGG | | | | | |
| | ATGTGTAAGA TATATGT | | | | | |
| | TNCTATTGCT TGGCTGT | | | | | |
| | TTGTAGTN | | | | 01101.0101 | 308 |
| 10 | | | | | | 000 |
| | SEQ ID NO:5150 | | | | | |
| | SEQUENCE LENGTH: 31 | 6 | | | | |
| | SEQUENCE TYPE: nucl | | | | | |
| 15 | TOPOLOGY: linear | | | | | |
| | CLONE: HUMGS06153 | | | | | |
| | SEQUENCE DESCRIPTI | ON: | | | | |
| | GATCTGTCCT GTGAGGC | | CAGGAATTTA | GTAAAAGGTG | GAGTATGCCT | 60 |
| 20 | TTCCAGTATC TTCCATC | | | | | |
| 20 | CCGAGGTAGG AGGATGG | | | | | |
| | GCCTCAACCC TGGCAAT | | | | | |
| | TCACTGGATT TTATACC | | | | | |
| | AAAANCTTTG TACAAA | | | | | 316 |
| 25 | | | | | | V |
| | SEQ ID NO:5151 | | | | | |
| | SEQUENCE LENGTH: 66 | | | | | |
| | SEQUENCE TYPE:nucl | eic acid | | | | |
| 30 | TOPOLOGY: linear | | | | | |
| | CLONE: HUMGS 06154 | | | | | |
| | SEQUENCE DESCRIPTI | ON: | | | | |
| | GATCAGGCAG GAGAAAA | ACT TTAGATGGGA | GTCTTGTCAT | CAAAAATAAA | TACAGTTGCA | 60 |
| | TGGAAA | | | | | 66 |
| 35 | | | | | | |
| | SEQ ID NO:5152 | | | | | |
| | SEQUENCE LENGTH: 31 | 1 | | | | |
| | SEQUENCE TYPE: nucl | eic acid | | | | |
| 40 | TOPOLOGY: linear | | | | | |
| | CLONE: HUMGS06155 | | | | | |
| | SEQUENCE DESCRIPTI | ON: | | | | |
| | GATCAGGACA AGAGCGA | NGC ACCAGGGGAG | CTCTCTCCCA | AAGGCCTTGT | CGCCCCAGAC | 60 |
| 45 | CTAACTCGCT CCCCCTC | AAC CTGCCTGAGG | AAGAAACTCT | CAGGATTGCA | CGGATATTTT | 120 |
| | CTTCTCAGTA CTCCCAG | | | | | |
| | TGCCCANCNN NCGTCAG | | | | | |
| | GCTGTCACAG TCCTGAA | | | | | |
| | AGGCTAGATN N | | | | | 311 |
| 50 | | | | | • | |

SEQ ID NO:5153

| | SEQUENCE LENGTH:111 SEQUENCE TYPE:nucleic | acid | | | | |
|----|---|------------|------------|------------|------------|-----|
| 5 | TOPOLOGY: linear CLONE: HUMGS06156 | | | | | |
| | SEQUENCE DESCRIPTION: | | | | | |
| | GATCTAGGGC TGGCCCCTAG | TGAGTGGGCT | CGAGGGAGGG | TTNCCTGGGA | ACCCCAGGAA | 60 |
| | TTGACCCTGA GTTTTAAATT | CGAAAATAAA | GTGGGGCTGG | GACACACGAA | A | 111 |
| 10 | ara in No. 5154 | | | | | |
| | SEQ ID NO:5154 | | | | | |
| | SEQUENCE LENGTH: 274 | | | | | |
| | SEQUENCE TYPE:nucleic TOPOLOGY:linear | aciu | | | | |
| 15 | CLONE: HUMGS06157 | | | | | |
| | SEQUENCE DESCRIPTION: | | | | | |
| | GATCTCCTNN TCCAGTGCTG | CACACTCCTC | THTTTCCAAC | TTTAATSCCC | TTCCAACCAA | 60 |
| | ATCCTATATC CAGTTTCCTG | | | | | |
| •• | TTATTAACAG ACCAGATAGC | | | | | |
| 20 | TNAACTNTTT AGGGCAAAGT | | | | | |
| | GGAAAAANAA TTCCACTTGT | | | IAAGIGIIGA | nccininaia | 274 |
| | UUNAAANAA IICCACIIUI | UMMONTONU | doin | | | 217 |
| 25 | SEQ ID NO:5155 | | | | | |
| 20 | SEQUENCE LENGTH: 155 | | | | | |
| | SEQUENCE TYPE:nucleic | acid | | | | |
| | TOPOLOGY:linear | | | | | |
| | CLONE: HUMGS06158 | | | | | |
| 30 | SEQUENCE DESCRIPTION: | | | | | |
| | GATCACTCTG GTGCGGGTGT | | | | | |
| | TGACCATACA AATNATCTTT | | | GAGGTTTTTT | TCCTCCTTGT | |
| | CTTAAGGTCA TAAAAATATT | GTTATGTGGG | ACAAA | | | 155 |
| 35 | SEQ ID NO:5156 | | | | | |
| | SEQUENCE LENGTH: 369 | | | | • | |
| | SEQUENCE TYPE:nucleic | acid | | | | |
| | TOPOLOGY: linear | | | | | |
| 40 | CLONE: HUMGS06159 | | | | | |
| | SEQUENCE DESCRIPTION: | | | | | |
| | GATCTGTGGC TTTGCTCCAC | CATCCCTAAC | CAACCTCTCA | TCACAGCTTT | NTGTGTGGGC | 60 |
| | TGAGTGCTGG CCTTAACCCT | AGGCGTGGAA | GAGAAAATGT | GAGGTTGTTT | AGATACTCAT | 120 |
| 45 | CAGGACCTCA CAGGAGCTGA | | | | | |
| | ATCTTACAGA AAACCCTCCT | | | | | |
| | CTCATTTTTA ATGGTGTACA | CCTGNTTCTA | GGGNCGATTT | CGTTTTGGAA | GNGGGTAANG | 300 |
| | NTGCNTTAAC CAGGTAACTN | ATCCTTGGGN | TTTAAGGTGN | AAAAAATNTT | CTNGNCAAAG | 360 |
| 50 | GGAANCCNN | | | | | 369 |
| 50 | | | | | | |

SEQ ID NO:5157

| | SEQUENCE LENGTH:279 SEQUENCE TYPE:nucleic TOPOLOGY:linear | acid | | | | |
|----|--|--------------|------------------|--|--------------------|-------|
| 5 | CLONE: HUMGSO6160 SEQUENCE DESCRIPTION: | | | | | |
| | GATCAAAATC AAAAGAACCG | TGTAGATATA | CTTNATTGTA | TAAGTAGAAA | ATTACTTAAT | 60 |
| | TNCATACTAG AAATGGATGG | ATGCTGCAAG | TTGAAATGGA | CTGTCCATTG | ACGGTCCTAA | 120 |
| 10 | TGTGGTAGCA GAAAAANATG | | | | | |
| | GTAAAACTCT ACAGTGTAGN | | | TGTGCGTTGT | NCATAGTTCT | 240 |
| | AATGCATTGT NTTNGCCNCC | CGGTACTTTC | TNTNAANGN | | | 279 |
| 15 | SEQ ID NO:5158 | | | ٠ | | |
| | SEQUENCE LENGTH:337 SEQUENCE TYPE:nucleic | aaid | | | | |
| | TOPOLOGY: linear | aciu | | | | |
| | CLONE: HUMGS06161 | | | | | |
| 20 | SEQUENCE DESCRIPTION: | | | | | |
| 20 | GATCTCAAGT GAGATAGCAG | AGCAAGATGC | CAAAAGACCA | TAAATAGAGT | AAGGTTTCTA | 60 |
| | TAGATGTNAG ACAGATTTGA | GAGAGCATTT | ACTCTGTCTC | CCTGTGGATG | AAACTGCTGC | 120 |
| | TGAAATGGTT CCAATTTTNA | GGAATCTGCT | TACCONCTTC | ATTATTTGAC | AGCTTTCCTT | 180 |
| 05 | GGTGACCCAA ACCTTGTAGC | CTAAGCCATT | TGTCTTTTTC | TCAGTGGAGG | GAGTGTATGG | 240 |
| 25 | ACCTGGCCCC ATGGCTTTGC | ATGTTAGAGA | CCTGGCNGAC | TAAAGTCNCN | ${\tt GGGTGTTTGT}$ | 300 |
| | TTGCTCACAT TTGCTGAGTG | ACAGNTATGG | TGNCCNN | | | 337 |
| | SEQ ID NO:5159 | | | | | |
| 30 | SEQUENCE LENGTH: 378 | | | | | |
| | SEQUENCE TYPE: nucleic | acid | | | | |
| | TOPOLOGY:linear | | | | | |
| | CLONE: HUMGS06163 | • | | | | |
| 35 | SEQUENCE DESCRIPTION: | | | | | |
| | GATCTACAAC CCCTTGGAGC | | | | | 60 |
| | CCGCCAATGT GGTCCCCCCT | | | | | |
| | CTTTNGCCTC ACAAACGATT | | | | | |
| 40 | CCACTCATCT CCCATCTCCA | | | | | |
| 40 | AGAAAGAAAA TCAACTTTTC ACCAGTAGAG AAGCCTGAGG | | | | | |
| | CATGTGGGAG ACTGNTGN | AATTTACAAA | AIGNIGCAGC | ICCAAGCCAI | IIGIAIGGCC | 378 |
| | CATGIOGGAG ACTONION | | | | | 310 |
| 45 | SEQ ID NO:5160 | | | | | |
| | SEQUENCE LENGTH: 135 | | | | | |
| | SEQUENCE TYPE:nucleic | acid | | | | |
| | TOPOLOGY: linear | | | | | |
| 50 | CLONE: HUMGS06164 | | | | | |
| | SEQUENCE DESCRIPTION: | 1010010010 | 1010100010 | CACACCOMC | 0000010000 | 60 |
| | tentinici alla alla della dell | ALARY ALL AL | al Bladfal I Bla | I A MILE ALL LA | THE THE ATTITUTE | P 1 1 |

| | GCAGCCCCCA CCCCCAAGGT AGTGGTTTGT GGAAA | TCTCCAACAT | CACAGCCCAG | CCCACCCACT | GGGTAATAAA | 120 135 |
|----|---|------------|------------|------------|------------|------------|
| 5 | SEQ ID NO:5161 | | | | | |
| | SEQUENCE LENGTH: 350 | | | | | |
| | SEQUENCE TYPE: nucleic | acid | | | | |
| | TOPOLOGY: linear | | | | | |
| 10 | CLONE: HUMGSO6165 | | | | | |
| | SEQUENCE DESCRIPTION: | | | | | |
| | GATCTCGTAA GATTAAATGT | | | | | |
| | ATGAATGGAA GGAAAGACTA | | | | | |
| | CCAAGTAGCA AATGACCATT | ATGTGTAAGA | CTTACTCTAA | AAAGACCNTT | TTAAATAGCT | 180 |
| 15 | CATATATTAA TNINGTITAA | | | | | |
| | AATCTAAGTT AAAAAATCAG | | | | AAAAAATCCA | 300 |
| | GTTTTAAACC NGNNTNNATT | GANAGGNTGT | CTCCATGCCT | NCCATTGGGN | | 350 |
| 20 | SEQ ID NO:5162 | | | | | |
| | SEQUENCE LENGTH: 57 | | | | | |
| | SEQUENCE TYPE:nucleic | acid | | | | |
| | TOPOLOGY:linear | | | | | |
| 05 | CLONE: HUMGS06166 | | | | | |
| 25 | SEQUENCE DESCRIPTION: | | | | | |
| | GATCACTTTT ATGTAAAAAT | TATAATTTAA | TTAATAAAA | ATTTCTTAAG | AAGTAAA | 57 |
| | SEQ ID NO:5163 | | | | | |
| 30 | SEQUENCE LENGTH: 203 | | | | | |
| | SEQUENCE TYPE:nucleic | acid | | | | |
| | TOPOLOGY: linear | | | | | |
| | CLONE: HUMGS06167 | | | | | |
| 35 | SEQUENCE DESCRIPTION: | | | | | |
| 35 | GATCAGGCCT TGGCCTCTNA | GCCCTGCCTG | CTCTGGGCCA | TGCAGAGGAA | GGACAGAGNG | 60 |
| | TGGGCGCAGG GCACCAACTC | AGGGACATCC | CCTCTCCTGG | GCGACGTCAG | TGGACCTTCC | 120 |
| | TGCACCCCCA GCCTGGAATG | TAAATNAGCT | GTGTGGTGCC | CGCGTNGCTG | GAAGGAAATA | 180 |
| | GACCCTTTTN TAGCTCCCTG | AAA | | | | 203 |
| 40 | | | | | | |
| | SEQ ID NO:5164 | | | | | |
| | SEQUENCE LENGTH: 274 | | | | | |
| | SEQUENCE TYPE:nucleic | acid | | | | |
| 45 | TOPOLOGY: linear | | • | | | |
| | CLONE: HUMGS06168 | | | | | |
| | SEQUENCE DESCRIPTION: | | | | | |
| | GATCCTCTGT GATACCAAAA | TCCATGGATG | CTAAAGTCCC | TTTTTAAAAA | TGGCATAGTA | 60 |
| | TTTGCATATA ACCCAAACAC | | | | | |
| 50 | ATACATAATG TAATGTAAAT | | | | | |
| | ACAAGANGAA AAAGTCTGTA | CATGTTCAGT | ACAGAGGCAA | CCTTTGTAGG | TCTAAATANN | 240 |

| | TTTTTAATAC AGNANTNNGG | ATGTNAGNNN | NGGN | | | 274 |
|----|--|--------------------------|--------------------------|--------------------------|--------------------------|------------|
| 5 | SEQ ID NO:5165 SEQUENCE LENGTH:343 SEQUENCE TYPE:nucleic TOPOLOGY:linear | acid | | | | |
| 10 | CLONE:HUMGS06169 SEQUENCE DESCRIPTION: GATCTCTTTT TATTTAAATG GAAATAGCTT TACTGTTTCT TTGGAATTGT CTTGATTTTT | CAAGTGTTTT | GGAGAAAAA | ATCAACCCTG | CAATCACTTT | |
| 15 | ATGTCACTGT AGTTTTGAGT GGGGTGGAAA NGGATAACAA ANTNTNATTA ANCAATNTTG | GTATACATGT TTCAAGCTGA | GTGGGTGCTG GAAANGTATT | ATAATNGTGT CTCAAAGATG | ATGTCCTTTG | 240 |
| 20 | SEQ ID NO:5166 SEQUENCE LENGTH:124 SEQUENCE TYPE:nucleic TOPOLOGY:linear | acid | | | | |
| 25 | CLONE:HUMGS06170 SEQUENCE DESCRIPTION: GATCATACGA GGCATGTAAT TGAATTTCCT TTGAACTTTT CAAA | | | | * | |
| 30 | SEQ ID NO:5167 SEQUENCE LENGTH:367 SEQUENCE TYPE:nucleic TOPOLOGY:linear | acid | | | | |
| 35 | CLONE:HUMGSO6171 SEQUENCE DESCRIPTION: GATCTTGGAC CCAGTCTGGC CCCAGAGGGC TGGGGCCTCA | | | | | 60 120 |
| 40 | CTACTATGTT GACAGTAACA ACTGNCTGCT GTTGGAAGAA GGCCCTGCCC TTGCCACACA TGTGAAAATA ANCTGCAGGN GGCANNN | AGCTGTGGAA CGGTACACAN | AGAAAGCAGG ATGCAGCCTC | GGGNCCCTGC TCTNTCTCTN | CCCAGGCCAA TGTGTCCACT | 240 300 |
| 45 | SEQ ID NO:5168 SEQUENCE LENGTH:207 SEQUENCE TYPE:nucleic | acid | | | | |
| 50 | TOPOLOGY:linear CLONE:HUMGSO6172 SEQUENCE DESCRIPTION: | | | | | |

| | GATCAGTTCA GTATATTGCA CTAATTATTT TAGGTATTTT CATTATATGA AAGCTACCAT 60 |
|-----|---|
| | GTGTCAGAGA TGATTTAATC TATTTAAGTG TTGGACTGCT AGGAGAACTT GTACATTTAT 120 |
| | GATAATGCAG AATTAGGAAA ACGGTTCACC AGTGTTTAGT TTTATATTGA GGTGCTCAGG 180 |
| 5 | TTGGTATAAA GTGGTATAAA AAGCAAA 207 |
| | SEQ ID NO:5169 |
| | SEQUENCE LENGTH: 116 |
| 10 | SEQUENCE TYPE: nucleic acid |
| | TOPOLOGY: linear |
| | CLONE: HUMGSO6173 |
| | SEQUENCE DESCRIPTION: |
| | GATCATGCCC TTTGTAGTAN CACAAATGGN GCTGGAGACC ATTATATTAA GCAAACTAAC 60 |
| 15 | ACAGTNCCAG ANAACCAAAT ACAGTATGTT CTCACTTATA AATGGGAACT AAAGNN 116 |
| | SEQ ID NO:5170 |
| | SEQUENCE LENGTH: 92 |
| 20 | SEQUENCE TYPE: nucleic acid |
| | TOPOLOGY: linear |
| | CLONE: HUMGSO6174 |
| | SEQUENCE DESCRIPTION: |
| oc. | GATCTGCTAG GGATTGTCAA AATAATCTCC TTGAGGCATC TTTATTTTTA AAATGAGATT 60 |
| 25 | AAAGTATGTG ATTTGCTTGT TATGTGGCTA AA 92 |
| | SEQ ID NO:5171 |
| | SEQUENCE LENGTH: 120 |
| 30 | SEQUENCE TYPE:nucleic acid |
| | TOPOLOGY: linear |
| | CLONE: HUMGS06175 |
| | SEQUENCE DESCRIPTION: |
| | GATCANCAGA AAAGGCAAAT TTCACTCGNC TAAACACTTT CAATTTTCAG TTNTAATTTT 60 |
| 35 | ATNTTCTATA TACCCAGTCA TAAAGTATAA GCATCAGTTG TCATTAAAAG TTTTCAGAAA 120 |
| | SEQ ID NO:5172 |
| | SEQUENCE LENGTH: 102 |
| 40 | SEQUENCE TYPE:nucleic acid |
| | TOPOLOGY:linear |
| | CLONE: HUNGS06176 |
| | SEQUENCE DESCRIPTION: |
| 45 | GATCTGTAAT GAAAAGAATC TGNTACTGCA AGTAAAACCT ACTCCCCAAA AATGTGTGGC 60 |
| | TTTGGGTCTG CATTAAACGC TGTAGTCCNN GTTCATGCCA AA 102 |
| | SEQ ID NO:5173 |
| | |
| | SEQUENCE LENGTH: 171 |
| 50 | |

| | CLONE: HUMGSO6177 SEQUENCE DESCRIPTION: | | | | | |
|----|---|------------|------------|------------|------------|------------------|
| 5 | GATCACTINT NGTCTGATTC NCCTGCCCCT TGGGAAGGGG CCATGCTGCA CTTACTCCTT | CAGTGATGGC | TTTGAGGGGA | AGGAGGAGAC | CCTCTTTCTC | |
| 10 | SEQ ID NO:5174 SEQUENCE LENGTH:188 SEQUENCE TYPE:nucleic TOPOLOGY:linear | acid | | | | |
| 15 | CLONE:HUMGSO6179 SEQUENCE DESCRIPTION: GATCTAAACT GTATTGNCCA ATTTTTCTAA TGACTTCATT GTACTTGTAT TAAAAGATGA TCTATNNN | CTATATTATN | TTGTTAGGTT | GCATAAAGAA | GCAAGGAATT | |
| 20 | | | | | | |
| 25 | SEQ ID NO:5175 SEQUENCE LENGTH:69 SEQUENCE TYPE:nucleic TOPOLOGY:linear CLONE:HUMGSO6180 SEQUENCE DESCRIPTION: | | | | | |
| | GATCTTGAGA GGTGGAGGTT GACAGCAAA | GCAGTGAGCC | AAGATTGTGC | CACTGNCTTC | CAGCCTGGGA | 60 69 |
| 35 | SEQ ID NO:5176 SEQUENCE LENGTH:134 SEQUENCE TYPE:nucleic TOPOLOGY:linear CLONE:HUMGSO6181 | acid | | | | |
| 40 | SEQUENCE DESCRIPTION: GATCTGTTAA TATGTAACAT TTAAAAGGTT TTAAAAATAC CTCTGTGANN NNNN | | | | | 60 120 134 |
| 45 | SEQ ID NO:5177 SEQUENCE LENGTH:59 SEQUENCE TYPE:nucleic TOPOLOGY:linear CLONE:HUMGSO6182 SEQUENCE DESCRIPTION: | acid | | | | |
| 50 | GATCTINGAG ATTGTTCCAC | ATCAGTACAT | AAAGTACATA | AAGATTGTCA | CCCCACAAA | 59 |
| | SEQ ID NO:5178 | | | | | |

| | SEQUENCE LENGTH: 193 SEQUENCE TYPE: nucleic acid TOPOLOGY: linear CLONE: HUMGSO6183 | |
|-----|---|-----|
| 5 | SEQUENCE DESCRIPTION: GATCTGTCTA CTTNNCTTAT CCTGATTCAA ATGGAATGCC AGTATGGAAC TCCTAGGATT TGTCACGAAT GGGAAGCCAA GTGCCATCTT CAAAATTTCA GGTCTTAAAC NTGGAGAAGG 1 AAGCCAACAT CCTTTTGGAG CCATGAATNT TGTCCGAACT CCANNNTGTT GCTCAGANTG 1 | 120 |
| 10 | GANTTTCAGT GGN | 193 |
| | SEQ ID NO:5179 | |
| | SEQUENCE LENGTH: 109 | |
| 4.5 | SEQUENCE TYPE:nucleic acid | |
| 15 | TOPOLOGY:linear | |
| | CLONE: HUMGS06184 | |
| | SEQUENCE DESCRIPTION: | |
| _ | GATCATTATT TGGNAATATG TCCTATGGAA AGAATAAAAG CATGTNCTTC ACAGCTAGCA | |
| 20 | TGTTCACAGA TTTGAAAGAA GTTTCATTAA AAGCACCATT GCTTTCAAA 1 | 09 |
| | SEQ ID NO:5180 | |
| | SEQUENCE LENGTH: 297 | |
| | SEQUENCE TYPE:nucleic acid | |
| 25 | TOPOLOGY:linear | |
| | CLONE: HUNGSO6185 | |
| | SEQUENCE DESCRIPTION: | |
| | GATCTTAATT TAAATAGGTG CTTTAATTTT ACAGCTTTCA AAAGTAGTTA CTGTAAATTT | 60 |
| 30 | TACTCCTGTT AATGCTGGAT TGGTTTAAAG GATTTATAAG GGCTGTGTTT NCTCTNTACA 1 | 20 |
| | AGGCAAGATG CCATACAGNG TTCANTAATA GAAGGTCTNG ATACAACCGA CATTTTAAAT 1 | 80 |
| | ATTCTNTATA CATGNGGACT GCGTCTTTTT CACTGACCCT ATGANTTCAC TGTGGAGTAG 2 | 40 |
| | GGTGAACTGG NCTGCANATT AGTTTATTTG TTGCCATAAT CACATTNNNG AAAAGAN 2 | 97 |
| 35 | ATA IN NO SACA | |
| | SEQ ID NO:5181 | |
| | SEQUENCE LENGTH: 301 SEQUENCE TYPE: nucleic acid | |
| | TOPOLOGY: linear | |
| 40 | CLONE: HUMGS06186 | |
| | SEQUENCE DESCRIPTION: | |
| | GATCTNATTG CTTATAAACT TTGGTGACGG TAGTGTGTAA GGCCGTATTT NNAGCATCTN | 60 |
| | ACAGGTGTTT ACAAAAAGT GGTTGTCGCA CTGGGAAGTG GAGTGATGGC CTCGTCTCCA 1 | |
| 45 | GTGCTCCTCT GGGCTCTTGA GTTGCTGCTT GANTTGCCGT GTAGACATTT NCTTGGAGAG 1 | |
| | TCCACTTGTN ATTTGACGGA GGTAGGTTTC AACCCAGAGT TAATGTCAAG CATGCTAATT 2 | |
| | TANCTAGTCA CTCACAGATG ACTTTCCTTT AATAAAAGTC CCTTTTCCCT AAAANAAAAA 3 | |
| | A 3 | 01 |
| 50 | | |
| | SEQ ID NO:5182 | |

| | SEQUENCE LENGTH: 293 | |
|----|--|-----|
| | SEQUENCE TYPE:nucleic acid TOPOLOGY:linear | |
| 5 | CLONE: HUMGSO6187 | |
| | SEQUENCE DESCRIPTION: | |
| | GATCTTTGGG CAAGTCACTT AACCTCTCTT INCCTCAATT TCCTCATCTT GAAATGAGGA | 60 |
| | TAATAATACC TGCTGTACCT ACCTCACAGG GCTGTTGTGA GGATTAAATG AGNTGGCATG | |
| 10 | TGAAAGCACT TTGAAAATTG TAAAGCGCTA TGTAAATGTA AGGTATTATA GAANCATCTT | |
| | TAACATATAG TTTCATACCA TTCATTTTTT ACCAAAGAAA GGGAAAGTNT GCTNGTANGC 2 | 240 |
| | TGGTTGAAAA AGTTANNCTT GGTATAANNT TGNGTTTGGT TGANGNANAA GGN | 293 |
| | SEQ ID NO:5183 | |
| 15 | SEQUENCE LENGTH: 149 | |
| | SEQUENCE TYPE:nucleic acid | |
| | TOPOLOGY: linear | |
| | CLONE: HUMGSO6188 | |
| 20 | SEQUENCE DESCRIPTION: | •• |
| | GATCACAAAA GTATATAAAA AGTCTACTAG AGCAACATTT TCCCATATTT TTNGGTTCTC AAAGCAACTT ATGTATGNTT TAGAGANGNC AAAAGAGAA GCCTAGGGGG AAAAGAAAGA 1 | 60 |
| | WALES AND THE PARTY OF THE PART | 49 |
| | I COMMITTO TAGAMAMIN | .43 |
| 25 | SEQ ID NO:5184 | |
| | SEQUENCE LENGTH: 157 | |
| | SEQUENCE TYPE:nucleic acid | |
| | TOPOLOGY: linear | |
| 30 | CLONE: HUMGSO6189 | |
| | SEQUENCE DESCRIPTION: | |
| | | 60 |
| | TGAAAGACTT TAAGATAGGC AGTAATGCTT ACTACAATAC TACTGANTTT TTNTAGAGTT 1 AACATTTGAT AATAAAACTT GCCTGTTTAA TCTCAAA 1 | |
| 35 | AACATITUAT AATAAAACII UCCIUITTAA ICICAAA | 57 |
| | SEQ ID NO:5185 | |
| | SEQUENCE LENGTH: 62 | |
| | SEQUENCE TYPE: nucleic acid | |
| 40 | TOPOLOGY: linear | |
| | CLONE: HUMGS06190 | |
| | SEQUENCE DESCRIPTION: | |
| | | 60 |
| 45 | AA | 62 |
| | SEQ ID NO:5186 | |
| | SEQUENCE LENGTH: 145 | |
| 50 | SEQUENCE TYPE: nucleic acid | |
| | TOPOLOGY: linear | |
| | CLONE: HUMGSO6191 | |

| | SEQUENCE DESCRIPTION: | | | | | |
|-----|---------------------------------------|------------|------------|------------|------------|-----|
| | GATCTAGAGC AGCATGGAGC | TGTTGGTAGA | ATATTAGTTT | TTAACCATAC | ATTGTCCCAA | 60 |
| | AAGTGTCTNT GCATTGTGCA | AAANGTAAAC | TTAGGAACAT | TTNGGTATTA | AAAGGATTAT | 120 |
| 5 | TTTAATTGNN AAAAGCCNGA | NGCGN | | | | 145 |
| | | | | | | |
| | SEQ ID NO:5187 | | | • | | |
| | SEQUENCE LENGTH: 103 | | | | | |
| 10 | SEQUENCE TYPE:nucleic | acid | - | | | |
| 10 | TOPOLOGY: linear | | | | | |
| | CLONE: HUMGS06192 | | | | | |
| | SEQUENCE DESCRIPTION: | | | | | |
| · · | GATCAACAGC TCCGCCTACC | GCAAAGCATT | TGANAGCAGA | CTAGCCANCA | GTNGTGCTCT | 60 |
| 15 | GAGAGTGAAC GNGCACCTCC | AGGTNGAGGG | CCACAGCAAC | GTN | | 103 |
| | | | | | | |
| | SEQ ID NO:5188 | | • | | | |
| | SEQUENCE LENGTH: 248 | | | | | |
| 20 | SEQUENCE TYPE:nucleic | acid | | | | |
| | TOPOLOGY: linear | | | | | |
| | CLONE: HUNGSO6195 | | | | | |
| | SEQUENCE DESCRIPTION: | | | | | |
| 25 | GATCTGATAG AGGGGGAGGC | | | | | |
| | TCCCAGTTCA AAGAAACAAA | | | | | |
| | TACTAAAAGG ANAAATTGTG | | | | | |
| | TTNATGTTCT TGTGAGGANA | AAAGTAAANC | ATGTTTANTT | TTAANNAAGG | NGANAGNGGG | |
| | NGTNTAGN | | | | | 248 |
| 30 | ano in vo. 7100 | | | | • | |
| | SEQ ID NO:5189 | | | | | |
| | SEQUENCE LENGTH: 354 | | • | | | |
| | SEQUENCE TYPE:nucleic TOPOLOGY:linear | acia | | | | |
| 35 | CLONE: HUMGS06196 | | | | | |
| | SEQUENCE DESCRIPTION: | | | | | |
| | GATCTCTTAT ACAGACGCAC | CAAAGCCCTC | ATTGACTATG | AGAACTCAAA | CAAAGCTCTG | 60 |
| | GATAAGGCCC GGTTAAAGAG | • | | | | |
| 40 | TGCCAGAAAT TTGAACAACT | | | | | |
| | AAGAGAGTGG CAGCATTTAG | | | | | |
| | GCCAGGNACA ATGTCTCCCT | | | | | |
| | ATGCCTTCAC TCNGTAGGAA | NNGGAGTTGA | ATTGTTGTAA | GGAAGCCNAN | GTGN | 354 |
| 45 | | | | | | |
| | SEQ ID NO:5190 | | | | | |
| | SEQUENCE LENGTH: 77 | | | | | |
| | SEQUENCE TYPE: nucleic | acid | | | | |
| | TOPOLOGY: linear | | | | | |
| 50 | CLONE: HUMGS06197 | | | | | |
| | SEQUENCE DESCRIPTION: | | | | | |

| | GATCTCTATT TTAAAACTAG CAGCCCGCCC CTGCAAA | CTTTTTAAGC | AGCTGTATGA | AATAAATNCT | GAGTGAGCCC | 60 77 |
|----|---|--------------------------|--------------------------|--------------------------|--------------------------|------------|
| 5 | SEQ ID NO:5191 SEQUENCE LENGTH:257 SEQUENCE TYPE:nucleic TOPOLOGY:linear | acid | | | | |
| 10 | CLONE: HUMGSO6198 SEQUENCE DESCRIPTION: GATCTAGCTT CANAGGAAGT | CTACACCCCA | TTCCCTTCTG | CTTACAATGT | ACCCATGATA | 60 |
| 15 | TGTGTTTAGC ACAGTAATAC CACTGTATTT AACTGAAAAG ACTTTNNTAA CAAACTTCAT GGNNTATTAA TGCCATN | TGTAACAGGA AATGCCTACA | CATCACATGG GATTGGATAT | AAAAATCAAA TTNGTAGGGG | GCAGCTGGCT NAATTAAGGC | 120 180 |
| 20 | SEQ ID NO:5192 SEQUENCE LENGTH:185 SEQUENCE TYPE:nucleic TOPOLOGY:linear CLONE:HUMGSO6199 | acid | | · | | |
| 25 | SEQUENCE DESCRIPTION: GATCCCAGGC TGCCCTGGAC TTGGCCTAGA CCTNGGATTT AGGAGACCTG CAGCCCTNCG NCAAA | GTGGGGAAAG | CTGCTGGTGT | GACCANCTGA | GCACCCAGCC | |
| 30 | SEQ ID NO:5193 SEQUENCE LENGTH:60 SEQUENCE TYPE:nucleic | acid. | | | | |
| 35 | TOPOLOGY:linear CLONE:HUMGS06200 SEQUENCE DESCRIPTION: GATCTGTATA TAACTTTAAT | * | ATAATCAACT | TTGTAATATT | CTNATATAAA | 60 |
| | SEQ ID NO:5194 SEQUENCE LENGTH:286 SEQUENCE TYPE:nucleic TOPOLOGY:linear | acid | | | • | |
| 45 | CLONE:HUMGS06201 SEQUENCE DESCRIPTION: GATCACCCTC TACGGGAGAA CTTCTCCAAA TCTNTGGGCC | TCCCTGAAAA | CCACATCGTC | TTCCCTGTCC | CAATCGACCA | |
| 50 | GTGTATCGAC GGCTGAGTGC AGGGAGCTGG GAGACCCTCC NTGATGGAGC CCCACCTTGT | CCACAGTGCC | ACCCATGCAG | CTGCTCCCCA | | |

| 5 | SEQ ID NO:5195 SEQUENCE LENGTH:138 SEQUENCE TYPE:nucleic acid TOPOLOGY:linear CLONE:HUMGS06202 SEQUENCE DESCRIPTION: |
|----|--|
| 10 | GATCTCTTGT TCTCTCCTGA GTGTCTTNCT ACTNTGCTGA GNGTCTTTCT GCTGTCCTTA 60 TCCTGTTCTC TTATCCTNAT CCCCTCCAGT CTCTGCCTAA TTTTNAGTGT TTAATAACAA 120 CCGNATGTCT AGTAAATN 138 |
| 15 | SEQ ID NO:5196 SEQUENCE LENGTH:96 SEQUENCE TYPE:nucleic acid TOPOLOGY:linear CLONE:HUMGS06203 |
| 20 | SEQUENCE DESCRIPTION: GATCAAGAAC TTGGAACCGC AGAAAACGAA ATCCCATAGT AGCACAAAGC TTGGCTGTTC 60 AGTGAATAAC ATTTAAATAA TCGTAAANTA CAGAAA 96 |
| 25 | SEQ ID NO:5197 SEQUENCE LENGTH:222 SEQUENCE TYPE:nucleic acid TOPOLOGY:linear CLONE:HUMGS06204 |
| 30 | SEQUENCE DESCRIPTION: GATCTTGCAG CTTTATTTGA GTATTTGTTC TTTTGTGTAG TTTCCATCTT TTAAAATATT 60 TAAAATATTT TCAAGATAAA GTATTATCTT CTCTGCAAAA ATTCCTGGAG TAATTTNCTC 120 TCATAATATT TGAGGTCAGT GGTTCTCAGT TGTATTAGTG GGGTAACTAC ATCAAAGTAA 180 ATAANGTCTT ATTTTNANA TGCAAATTTT AGACCATAGA AA 222 |
| 35 | SEQ ID NO:5198 SEQUENCE LENGTH:53 SEQUENCE TYPE:nucleic acid TOPOLOGY:linear |
| 40 | CLONE:HUNGS06205 SEQUENCE DESCRIPTION: GATCAAGTGA ACCATCCCTA GTCTTCCCTC AATAAATAAC TTTTAACTCC AAA 53 |
| 45 | SEQ ID NO:5199 SEQUENCE LENGTH:239 SEQUENCE TYPE:nucleic acid TOPOLOGY:linear CLONE:HUMGS06206 SEQUENCE DESCRIPTION: |

| 5 | GATCANAGTG AACCCTCAGT TTGTACAAAA GAGTATGGGC TCACAAGANG ATGATTCAGG 60 AAACAAACCA TCCAGTTATT CTTGAAACTA ACATCCATCC TGAGCTAAAC NAGAGAAACT 120 ACCATCTTGG CCAGTGNCAN GTGTTCGGAG GGCAGCAGAG NGGACCAAGC CTGTGTCACC 180 TGGNGACTAA GAANTTAAGT TTTGTNTTGA CATATTCAGT CCTGTGTGCT TNCAGNAAN 239 |
|----|--|
| 10 | SEQ ID NO:5200 SEQUENCE LENGTH:233 SEQUENCE TYPE:nucleic acid TOPOLOGY:linear CLONE:HUMGS06207 |
| 15 | SEQUENCE DESCRIPTION: GATCGAATAC GTGGATGNGA CGGGCCGGAA ACTCACACCC AAGGAGGCTT TCCGGCAGCT 60 GTCGCACCGN TTCCATGGCA AGGGCTCAGG CAAGATGAAG ACAGAGCGGC NGATGAAGAN 120 GCTGGACGAG GAGGCGCTCC TNAAGAAGAT GAGCTCCAGC GACACGCCCC TNGGCACCGT 180 GGCCCTGCTC CAGGNGAAGC AGAANGCTCA GANNGACCCC NTACATCGTG CTN 233 |
| 20 | SEQ ID NO:5201 SEQUENCE LENGTH:163 |
| | SEQUENCE TYPE:nucleic acid TOPOLOGY:linear CLONE:HUMGS06208 |
| 25 | SEQUENCE DESCRIPTION: GATCAAAAAG GGGTTGATTA CAAGGGCAGG AAGGAATTGT TAGTGTGATT CTACAGTTCT 60 GCATCTTGNT TATGGTATGA CTGTGCGTTT GTCAAACCTT AACAGGATGA ATTTTGCTGA 120 |
| | ATGTAAAATC ATACTTCAAT AAACATGACT TTAAAAANCTT AAA 163 |
| 30 | SEQ ID NO:5202 SEQUENCE LENGTH:319 SEQUENCE TYPE:nucleic acid |
| 35 | TOPOLOGY:linear CLONE:HUMGS06209 SEQUENCE DESCRIPTION: GATCAGTTTA TGTGTAATAT TCTAGTGCTT TAATGACTCT TTTTTTCTTT GGAGGGAGGG 60 |
| 40 | TAACATTATT TGGACAGATG CAGAAGGAAC TGTTAGTGAG TCAAGACAAA CACATCTGAA 120 ATAAAGGAAC TGTGTATTAA CATGTTAACA ATTCATAACT GCACTTTTA TGACATTTTG 180 AAAATCTATT TATAGGTACA GANCAATGGG TTTTGTTAAN CTGTATCACA TTTATNCTTG 240 CAGAAATTTA TTNCATTGTT ATTAGTAGGA ATTTTNTTGG TTCAATAAAA TTGGCAAAAN 300 |
| 45 | CTGGGAAAAN NAAANNTTN 319 SEQ ID NO:5203 SEQUENCE LENGTH:82 |
| | SEQUENCE TYPE:nucleic acid TOPOLOGY:linear CLONE:HUMGS06210 |
| 50 | SEQUENCE DESCRIPTION: |

| | GATCTGTCTA GTTCCCATTC ACTCATTTGA GTTGAACCTA | | CTCAGTGNTT | CAAAAGTTCC | TAATAAATAA | 60 82 |
|---|---|------------|------------|------------|------------|------------|
| 5 | SEQ ID NO:5204 SEQUENCE LENGTH:145 SEQUENCE TYPE:nucleic TOPOLOGY:linear | acid | | | ٠ | |
| 10 | CLONE:HUMGSO6211 SEQUENCE DESCRIPTION: GATCAAGAAA GAAGCTATCT | GGGANCANTG | TAGCANTTAC | GTCAGACCAG | GACACTTCCT | 60 |
| | GTTTACAGGA GACTATAAAA CCTCAGCCCG CCTGCACCCA | CCTTTGTCCT | | | | |
| 15 | SEQ ID NO:5205 SEQUENCE LENGTH:295 SEQUENCE TYPE:nucleic | acid | | | | |
| 20 | TOPOLOGY:linear CLONE:HUMGSO6213 SEQUENCE DESCRIPTION: GATCAGAAGC ACCTCTTCTT | TTATAGAAGT | TGATGGATGG | TTCATTCCAT | TCTGCTACCA | 60 |
| 25 | AGAAGTGCAT GCTGCTGCAG CACTCAGTGA CATTTCAGCC | CGACACCTCA | TTGCAACCTA | TTATGAGAGA | GTAAAACACA | 120 |
| - | CCAGTAAACT TNCAAATTTG GAATTTTCTG NTCTTTTGTA | | | | | 240 295 |
| 30 | SEQ ID NO:5206 SEQUENCE LENGTH:87 SEQUENCE TYPE:nucleic | acid | | | | |
| 35 | TOPOLOGY:linear CLONE:HUMGSO6215 SEQUENCE DESCRIPTION: | | | | | |
| | GATCTTTAAA ATNAAGTGTA GGAAATAAAA TATTTGCCAA | | ACAAGTAATG | CTTGTGTATT | TCTCACTTTA | 60 87 |
| 40 | SEQ ID NO:5207 SEQUENCE LENGTH:165 SEQUENCE TYPE:nucleic | acid | | | | |
| | TOPOLOGY: linear CLONE: HUMGSO6216 SEQUENCE DESCRIPTION: | | | | | |
| . · · · · · · · · · · · · · · · · · · · | GATCCTCCCA TCTCAGCCTC GCTAACTTTT TAATTTNTTT CCAGTACAAT TTATAATANA | GCGGAGACGG | TATTGCTATG | TTGCCAAGGN | | |
| 50 | SEQ ID NO:5208 | | | | | • |

| | SEQUENCE LENGTH:116 SEQUENCE TYPE:nucleic | acid | | | | |
|----|--|------------|-------------|------------|------------|-----------|
| 5 | TOPOLOGY:linear CLONE:HUMGSO6217 SEQUENCE DESCRIPTION: | | | | | |
| | GATCTTCTTC AGAAGCTTCA AAAAGTACAA GCTTAAAGGG | | | | | 60 116 |
| 10 | | | | | | |
| | SEQ ID NO:5209 | | | | | |
| | SEQUENCE LENGTH: 117 SEQUENCE TYPE: nucleic | | | | • | |
| | TOPOLOGY: linear | acid | | | | |
| 15 | CLONE: HUMGS06218 | • | | | | |
| | SEQUENCE DESCRIPTION: | | | | | |
| | GATCCCGTGN ACCGAGTACA | CGACCCAGGT | ATGTACCAAG. | TAGGCACCCT | TGGGCGCACC | 60 |
| • | CACTGGGGCC AAGGGTCGGG | GGAGTGTTGG | GAGCCTCCTN | CCCACCNNAC | CTNCCTN | 117 |
| 20 | • | | | | • | |
| | SEQ ID NO:5210 | | | | | |
| | SEQUENCE LENGTH: 181 | | | | | |
| | SEQUENCE TYPE:nucleic | acid | | | | |
| 25 | TOPOLOGY:linear CLONE:HUMGS06219 | | | | | |
| 20 | SEQUENCE DESCRIPTION: | | | | | |
| | GATCAGCCAC TTGCTGACCC | TGGTTCTTAA | GGACACATGA | CATTAGTCCA | ATCTTTCAAA | 60 |
| | ATCTTGTCTT AGGGCTTGTG | AGGAATCAGA | ACTAACCCAG | GACTCAGTCC | TGCTTCTTTT | 120 |
| 20 | GCCTCGAGTG ATTTTCCTCT | GTNTTTCACT | AAATAAGCAA | ATGAAAACTC | TCTCCATTAA | 180 |
| 30 | A | | | | | 181 |
| | | | | | | |
| | SEQ ID NO:5211 | | | | | |
| 25 | SEQUENCE LENGTH: 344 SEQUENCE TYPE: nucleic | anid | | | | |
| 35 | TOPOLOGY: linear | aciu | | | | |
| | CLONE: HUNGSO6220 | | | | | |
| | SEQUENCE DESCRIPTION: | | | | | |
| | GATCANAACC AGTTTGTAGA | TTTCTTTGTT | CCTTCTCCAT | TCCCACTGCT | TCACTTGCCT | 60 |
| 40 | AGTCTTGAAG NAAAAAAAAA | AAAAACAAAA | AAAACCTTGT | TCCTTTATAG | GTTCCTGGTA | 120 |
| | GAATCAGTAG AGATGATTTC | AGCTCATTGA | CATTTTTTA | AGCTATATCC | CCTTGTCATT | 180 |
| | CCATTGAGAA AGCTGACAAC | | | | | |
| | CTGTGTGAAT GTGAACTTGC | | | | CTGCGGTTAG | |
| 45 | NGGAAATCTA TCTCCCCTAT | CITNGGGTCC | TTGAACTACA | GCNN | | 344 |
| | SEQ ID NO:5212 | | | | | |
| | SEQUENCE LENGTH: 139 | | | | | |
| | SEQUENCE TYPE:nucleic | acid | | | | |
| 50 | TOPOLOGY - Linear | | | | | |

| 5 | CLONE:HUMGSO6221 SEQUENCE DESCRIPTION: GATCACATAA CTAGGAAGTO CCTACGCTTG GTCCAGAACA GTATTTTAAA ACATCTAAA | GCAGAACTGA | | | | |
|----|---|--------------------------|------------|------------|------------|------------------|
| 10 | SEQ ID NO:5213 SEQUENCE LENGTH:179 SEQUENCE TYPE:nucleic TOPOLOGY:linear CLONE:HUMGS06222 | | : | | | |
| 15 | SEQUENCE DESCRIPTION: GATCGTAAAC CATTATCCTT GTGTACAGGT AGATTTTNCC TGTTAGCTAT AACAAAACTC | TAAAGGTNTA GTCCCTCATT | AATAGTGCCT | TCTTAATTAA | TACAGACTGG | 60 120 179 |
| 20 | SEQ ID NO:5214 SEQUENCE LENGTH:129 SEQUENCE TYPE:nucleic TOPOLOGY:linear CLONE:HUMGS06224 | acid | | | | |
| 25 | SEQUENCE DESCRIPTION: GATCAAAATG TTCTGGAATT CACTGAATTG TATATTTTTA AAAAATAAA | AGATGTGATG | | | | 60 120 129 |
| 30 | SEQ ID NO:5215 SEQUENCE LENGTH:131 SEQUENCE TYPE:nucleic TOPOLOGY:linear CLONE:HUMGS06225 | acid | | | | |
| 35 | SEQUENCE DESCRIPTION: GATCTTCAAG CATAGNNTTG AGTNTGGTTT TAGAAACATG GATGATATNT N | CATATTTTAA | | | | 60 120 131 |
| 40 | SEQ ID NO:5216 | | | | | |
| 45 | SEQUENCE LENGTH: 190 SEQUENCE TYPE: nucleic TOPOLOGY: linear CLONE: HUMGS06226 SEQUENCE DESCRIPTION: | | | | | |
| | GATCTTTGAG CGGGACCTGA AGCCCAGGGC CTGCTGGGAC | | | | | |
| 50 | ACCCTGCCC ACCTGTNAAT | | | | | |

| • | TTGCAGGAAA | | | | | 190 |
|----|--|--------------------------|------------|------------|------------|------------|
| 5 | SEQ ID NO:5217 SEQUENCE LENGTH:323 SEQUENCE TYPE:nucleic | acid | | | | |
| | TOPOLOGY:linear CLONE:HUMGSO6227 SEQUENCE DESCRIPTION: | | | | | |
| 10 | GATCCCTGGT CTTCACACTG TAAGTGGAGT CTTCTAAGTG TCTNACATGC CACCATCCAC | TTTCCTGGAA | GAAGTCGGGT | CCCAGGCTCN | AGTTGCTGGT | 120 |
| 15 | ATAAATGCGG CAAAGAAGTT GGNCATNCAC CTTTTTGTTG | TNTTTCTGGC ATGAGTTGTA | CAGANGTCAN | TGGCAGCAAG | TGGAAATTTG | 240 300 |
| | TGGANCGTNT TTTCAGNCCN SEQ ID NO:5218 | IGN | | | | 323 |
| 20 | SEQUENCE LENGTH:225 SEQUENCE TYPE:nucleic | acid | | | | |
| | TOPOLOGY:linear CLONE:HUMGSO6228 SEQUENCE DESCRIPTION: | | | | | |
| 25 | GATCAAAGTT CAAATTAATT GGGTAGGCCG AGGTTAAATG | GTCCACGTTT | CAAAAATGTT | AATGGCTAAT | CCATAATTAA | 120 |
| | AGAAGGTTTA ACTGTTACTG ACGATGGCTT CGAAATGTCT | | | | AANIACAAAC | 225 |
| 30 | SEQ ID NO:5219 SEQUENCE LENGTH:317 SEQUENCE TYPE:nucleic | acid | | | | |
| 35 | TOPOLOGY:linear CLONE:HUMGS06229 SEQUENCE DESCRIPTION: | | | | | |
| | GATCTCATTC TCACCTCAGA ACTTTCCTTA GACTGTTAAG TTTGGTGTAG GTGGAGGTGT | TAAAAATGGA | CGTGTACTTT | TGGCCAGCAA | AGCACATTAT | |
| 40 | AAGACCAGAA TACTCAAAAT TTTAAGTTTC CTGGNTTANT | AATTGATGAA | GGATTGNNGA | GGTTCATAAT | TGNAATAACT | 240 |
| | AGGCACANGN TGTCNTN | | | | | 317 |
| 45 | SEQ ID NO:5220 SEQUENCE LENGTH:51 SEQUENCE TYPE:nucleic TOPOLOGY:linear | acid | | | | |
| 50 | CLONE: HUNGS 06230 | | | | | |

| | GATCATATAC AGTTCCCTTT | TTAAAAAGCA | ATAAATNCTT | GGAATTAGAA | A | 51 |
|----|---|--------------------------|--------------------------|------------|--------------------------|-----------|
| 5 | SEQ ID NO:5221 SEQUENCE LENGTH:103 SEQUENCE TYPE:nucleic TOPOLOGY:linear | acid | | | | |
| 10 | CLONE:HUMGS06232 SEQUENCE DESCRIPTION: GATCAAGAAT GTTTCCCAAA GCAATGATTC TTTACAATAC | | | | GANTTGTGAA | 60 103 |
| 15 | SEQ ID NO:5222 SEQUENCE LENGTH:218 SEQUENCE TYPE:nucleic TOPOLOGY:linear CLONE:HUMGS06233 | acid | | | | |
| 20 | SEQUENCE DESCRIPTION: GATCTCACAG ATGTNTGGAA GTTGCCAGGG CCTGGGACGT GAATAAGCTC TGGAGAGCTA ATACTTGANA TTTGTGAAGA | GGGGGAAATA ATGTACAGCA | GGGAGATGTT TAGTGACTNN | TGGTGTCTGT | TAGGAAGAAT | |
| 25 | SEQ ID NO:5223 | | | | | |
| 30 | SEQUENCE LENGTH:87 SEQUENCE TYPE:nucleic TOPOLOGY:linear CLONE:HUMGS06234 | acid | | | | |
| | SEQUENCE DESCRIPTION: GATCTGTCAC TTACTTCTGT TCATTAAAAT CAATGAACAA | | AAAGGCTACT | TATTTCCTCT | CTTAGCTTTC | 60 |
| 35 | TONTIANANI CARIUMACAA | IUCCAAA | | | | 87 |
| | SEQ ID NO:5224 SEQUENCE LENGTH:202 SEQUENCE TYPE:nucleic | acid | | | | |
| 40 | TOPOLOGY:linear CLONE:HUMGSO6235 SEQUENCE DESCRIPTION: GATCTCAGGC TGAGCAAAAT | NAAACCTTCA | TCTT | T | COLOGRALA | 60 |
| 45 | CCTGTTTACA ATGTGAGCTT CTGTTTCCCA GCAAGGTCTT ACAAATGGNT TCATTCACTN | TTTGTGCGTC TNNTTTTNCN | TGTGAAATGT | TTTACAGTGT | TTCTCATCAT TATCTNAATC | |
| | SEQ ID NO:5225 | | | | | |
| 50 | SEQUENCE LENGTH: 148 SEQUENCE TYPE: nucleic | acid | | | | • |

| | TOPOLOGY:linear CLONE:HUMGS06236 SEQUENCE DESCRIPTION: | | | 0 | | |
|----|---|------------|------------|------------|------------|------------------|
| 5 | GATCACAAGC GTATCCATNG ATGTTCATCT GCCACCTTGC AATAGAAATA AAGCATTTGT | TATTNAATGC | | | | |
| | SEQ ID NO:5226 SEQUENCE LENGTH:370 SEQUENCE TYPE:nucleic TOPOLOGY:linear CLONE:HUMGSO6237 | acid | | | | |
| 15 | SEQUENCE DESCRIPTION: GATCGAAATT GCGGGCTATG CACCGATTGC NACCGCAAAG GCCGCTGCCT ACAGAGTCAC | CCTACAGCAC | CACCAGTATT | GCCAGCGTCG | CTGACTGACC | 120 |
| 20 | GTTGGACAAT ACACGTTCAC ATCAGCGTCC ATNTCCGTNA TTCGCCGGAG GCTTNACTTT GNNTTTGGTN | GAAGCCCGGA | CGANCNCNTG | AACTACTTNN | CTCGGTGGCT | 300 |
| 25 | SEQ ID NO:5227 SEQUENCE LENGTH:149 SEQUENCE TYPE:nucleic TOPOLOGY:linear CLONE:HUMGSO6238 SEQUENCE DESCRIPTION: | acid | | | | |
| | GATCTGTGTG AAGAATGGTA ATTTGTGTGA TTTCGTACCA CGTGTTAATA AAACCCTGCA | AAAAATGTG | | | | 60 120 149 |
| 35 | SEQ ID NO:5228 SEQUENCE LENGTH:129 SEQUENCE TYPE:nucleic TOPOLOGY:linear | acid | | | | |
| 45 | CLONE: HUMGS 06240 SEQUENCE DESCRIPTION: GATCAGGCTT TGAAGGCTGG GAGCAGCTCC ACCACGTGTG TACGCAGGN | | ••••• | | | ••• |
| _ | SEQ ID NO:5229 SEQUENCE LENGTH:108 SEQUENCE TYPE:nucleic | acid | | | | |
| 50 | TOPOLOGY: linear | | | | | |

| | CLONE: HUMGS06241 | | | | | |
|----|----------------------|---------------|--------------|------------|------------|-----|
| | SEQUENCE DESCRIPTI | : אכ | | | | |
| | GATCATTTAG GAAAAAT. | | | | CCTTNTTTCT | 60 |
| 5 | NNTTTGATTT TTGACAG | CAA TGGAGAATG | G GNTATATAAA | GACTNCCN | | 108 |
| | SEQ ID NO:5230 | | | | - · | |
| | SEQUENCE LENGTH: 10: | 2 | | | | |
| 10 | SEQUENCE TYPE: nucle | eic acid | | | | |
| 70 | TOPOLOGY: linear | | | | | |
| | CLONE: HUMGS06243 | | | | | |
| | SEQUENCE DESCRIPTION | | | | | |
| | GATCAAGAGT TGTCATGO | | | | ACTATTTTGT | |
| 15 | GTTTAAGNAT ACTATGTA | TA TTAAAAGGG1 | ACATATTTGA | AA | | 102 |
| | SEQ ID NO:5231 | | | | | |
| | SEQUENCE LENGTH: 60 | | | | | |
| 20 | SEQUENCE TYPE: nucle | ic acid | p. | 4 Th | | |
| 20 | TOPOLOGY:linear | | | | | |
| | CLONE: HUMGS06244 | | | | ` | |
| | SEQUENCE DESCRIPTION | ••• | | | | |
| | GATCTTAAAA GTGTTAT1 | TT TGCTTTTATT | TTTTAAAAAA | GGNNGAGGNT | TATTUGCAAA | 60 |
| 25 | SEQ ID NO:5232 | | | | | |
| | SEQUENCE LENGTH: 76 | • | | • | | |
| | SEQUENCE TYPE: nucle | ic acid | | | | |
| | TOPOLOGY:linear | | | | | |
| | CLONE: HUMGS06246 | | | | | |
| | SEQUENCE DESCRIPTION | N: | | | | |
| | GATCTGCAGA TAGTTCTT | TT TCAAAATATI | GTTTAGACAA | AATAAATTTC | TTTAAATATA | 60 |
| | ATATETETAC TTCAAA | | | | | 76 |
| 35 | SEQ ID NO:5233 | | | | | |
| | SEQUENCE LENGTH: 314 | | | | | |
| | SEQUENCE TYPE: nucle | | | | | |
| | TOPOLOGY: linear | ic acid | | | | |
| 40 | CLONE: HUMGS06247 | | | | | |
| | SEQUENCE DESCRIPTION | N: | | | | |
| | GATCGNTCTG GTCGCAGO | • • • | GACGTGCACT | TTGAGCGGAA | GGCAGATGCC | 60 |
| | CTGAAGGCCA TGAAGCAG | | | | | |
| | CTTGTCACGT CNNNGATT | | | | | |
| 45 | ATGACTAGAA ACCGTGGC | | | | | |
| | CGCGGAGGCG CCCGTGGA | | | | | |
| | GCAGAGGAGC TTTN | | | | | 314 |
| 50 | SEQ ID NO:5234 | | | | | • |

| | SEQUENCE LENGTH: 238 | |
|----|---|-----|
| | SEQUENCE TYPE:nucleic acid | |
| 5 | TOPOLOGY: linear | |
| 3 | CLONE: HUMGS06248 | |
| | SEQUENCE DESCRIPTION: | |
| | GATCAATACC AAAAGACACT TGGAATCTTC TTTTAGACTT CAGTACGATG ATTGCAGATG | |
| | ACATGTCTAA TTATGATGAA GAAGGAGCAT GGCCTGTNCT TATTGATGAC TTTTTGGAAT | |
| 10 | TTGCACGCCC TCAAATTGCT GGGNCAAAAA GTACAACAGT GTAGCACTAA AGGNNCCTTC | 180 |
| | TAGAATGTAC ATAGTCTGTA CANTAAATAC ANCAGTAAAT TGCACAGTCA GNANNNNN | 238 |
| | SEQ ID NO:5235 | |
| | SEQUENCE LENGTH: 83 | |
| 15 | SEQUENCE TYPE:nucleic acid | |
| | TOPOLOGY: linear | |
| | CLONE: HUNGSO6249 | |
| | SEQUENCE DESCRIPTION: | |
| 20 | GATCTGCAAA CAATGAAGAA TTATGTAATA TATTGTACAA ATGTAAGCAA AGGCTCTGAA | 60 |
| 20 | ATAAAATGCC ATAGTTTGTG AAA | 83 |
| | | |
| | SEQ ID NO:5236 | |
| | SEQUENCE LENGTH: 178 | |
| 25 | SEQUENCE TYPE:nucleic acid | |
| | TOPOLOGY: linear | |
| | CLONE: HUMGS06250 | |
| | SEQUENCE DESCRIPTION: | |
| 30 | | 60 |
| | TATTTCCAAA ANGTATTGTN ATACATGTCA CTTATGTTTT TAAGCTANTA TTGACTGTAG 1 | 20 |
| | GATAATCTCC TTGTTCCCCT CAAAATAGTC ATGNAAGTGT ACATGAANNT NTTTTTAN 1 | 78 |
| | SEQ ID NO:5237 | |
| 35 | SEQUENCE LENGTH: 139 | |
| | SEQUENCE TYPE: nucleic acid | |
| | TOPOLOGY: linear | |
| | CLONE: HUMGS06251 | |
| | SEQUENCE DESCRIPTION: | |
| 40 | GATCTGAAGA GCTTTGCAGC TCTNTTAAAT AGGTTGCTGN ACATGTTCTA AGGTTTTGTA | 60 |
| | GAACACGTGT GCCTGTTTAA GTGTATTGAT GTTAATANTA TTAAATATCC TAATGATNGA 1 | |
| | A SOCI A STORE A SOCIAL STORE | 39 |
| 45 | SEQ ID NO:5238 | |
| 70 | SEQUENCE LENGTH: 363 | |
| | SEQUENCE TYPE: nucleic acid | |
| | TOPOLOGY: linear | |
| | CLONE: HUNGSO6253 | |
| 50 | SECURE DESCRIPTION. | ٠ |

| | GATCTAAGCC ACA | AGNGGGGA | CTGGAGCCTC | GTTTTCCCCC | TAGGCAGACC | TAAATCAAGC | 60 |
|----|------------------|-----------------|------------|------------|------------|------------|-----|
| | AGCTTACCAC AAT | TAGTGCAT | GCTGAGTAGA | TTAGTTCCAA | GGAAGGGAGA | CTGGAATGCT | 120 |
| | GGTGTCAAGG AAA | AAGCCTCC | CTCATCATCT | AGTCTAAGAC | CATAACGGGC | AGAAGCATAA | 180 |
| 5 | GAGGTTCCAG GGC | CCATAGGN | GANTGAGAAG | TAGGGCACAT | ATAGGGAGGA | AAGAAAAGTG | 240 |
| | NAGNNGGGGG ANA | ATCTCCGA | NTTTTTTTAC | TGCTTGGGAA | AAGTGTACTA | CATGANGGNT | 300 |
| | GCTTNGGGCT TTC | GCTAACCT | GCTCACCGCT | AACCCTNCCA | AGTNTTAACC | ATCCCCAGNG | 360 |
| | GTN | | | | | | 363 |
| 10 | | | | | | | |
| | SEQ ID NO:5239 | 9 | | | | | |
| | SEQUENCE LENGT | TH: 171 | | | | | |
| | SEQUENCE TYPE: | nucleic | acid | | | | |
| | TOPOLOGY: linea | ar | | | | | |
| 15 | CLONE: HUMGS062 | 254 | | | | | |
| | SEQUENCE DESCR | RIPTION: | | | | | |
| | GATCTGAGGA ACA | LAAATGAT | GTCATTTAAT | CGGAATCTAA | ATGTGACACA | AACAACGTGC | 60 |
| | CAGCAATACC TGC | CTTGTGAA | ATAATGTTCT | GAGCCCACAG | TGTTCCTGGG | TATGTGAGTT | 120 |
| 20 | TATATCAAGT GAA | AAAGGCTG | CTTAATTGAC | ATTAAAGTTT | TGGAATGTAA | A | 171 |
| 20 | | | | | | | |
| | SEQ ID NO:5240 | | | | | | |
| | SEQUENCE LENGT | | | | | | |
| | SEQUENCE TYPE: | nucleic | acid | | | | |
| 25 | TOPOLOGY: linea | ır | | | | | |
| | CLONE: HUMGS 062 | 255 | | | | | |
| | SEQUENCE DESCR | RIPTION: | | • | | | |
| | GATCATAAGT ATA | LAATGTCC | TCGTTTAATC | TTTCCATATT | GAGGACAGCC | TCTGCATATA | 60 |
| 30 | AAAATGTTCA TTG | GGAGAAA | TTTTTATTAA | AAAACTAAAT | TTTTATAGTA | GTCCTCCATT | 120 |
| 30 | ACTGGCAATT AAG | GAGCAAC | CCACAAAATG | TCATTATGTG | GTTCTTTGAT | TAGGCATAAA | 180 |
| | ANGTATTGCA AAC | CAGCTTTN | CTATTCCTTT | GGAATATGAN | TCTTTTTAAT | GTCTAANGTT | 240 |
| | AACCTGCAAC ATA | TTCTAGT | AGGACANGTC | AATGTAAATN | AGGTAATTNT | NGCCTGTNTT | 300 |
| | ATACCTNCTG TNG | ECATTTG | GTNCAAATGN | NAACCATTTN | TNAGNCCN | | 348 |
| 35 | | | • | | | | |
| | SEQ ID NO:5241 | | | | | | |
| | SEQUENCE LENGT | | | | | | |
| | SEQUENCE TYPE: | | acid | | | | |
| 40 | TOPOLOGY: linea | | | | | | |
| 40 | CLONE: HUMGS062 | | | | | | • |
| | SEQUENCE DESCR | | | | | | |
| | GATCAACAAG AGA | | | | | | |
| | GCAATAAGTA AAA | | | | | | |
| 45 | CTTATACTTG AGA | | | | | | |
| | CCTCTTTTCC TCA | | | | | | |
| | CCTCACTTGC TTC | | | | | | |
| | TGGAGTTTGT CTT | TGNGNGG | CAAATTTAGN | CCCNNGGNTC | ACAAGNTTTC | GGGGGTN | 357 |
| | | | | | | | |

55

SEQ ID NO:5242

| 5 | SEQUENCE LENGTH: 160 SEQUENCE TYPE: nucleic acid TOPOLOGY: linear CLONE: HUMGS06257 |
|----|---|
| 10 | SEQUENCE DESCRIPTION: GATCGGGGAC ATCCTTAGGC TGGTGGCCGG CCGCATCAAG AACACCTTCT GATTGAGCGG 60 TTGCCATGGC CGGTCTCCGT GGGGCAGGGT TGGGCCGCAT GTGGAAGGGC TCTGAGCTGT 120 GTCCTCCTTC ATTAAAAGTT TTTATGTCTC GTGTCAGAAA 160 |
| 15 | SEQ ID NO:5243 SEQUENCE LENGTH:122 SEQUENCE TYPE:nucleic acid TOPOLOGY:linear CLONE:HUMGS06258 SEQUENCE DESCRIPTION: |
| 20 | GATCAGACTA AAAACNATAA CACCATAGGT CAAAANAAGT TGTTCTGAGG TTTTTTTGAA 60 ACATTAAAGN TCCAAAACAT GACATTTTTA AGAATAAATT TGNAATAGAG TATAATTGNN 120 TN 122 |
| 25 | SEQ ID NO:5244 SEQUENCE LENGTH:71 SEQUENCE TYPE:nucleic acid TOPOLOGY:linear CLONE:HUNGS06259 SEQUENCE DESCRIPTION: GATCTCCCCT CTCACCCCTC CCACCCATTA ATCTCCTCCC AAAAAACAAG TAAAGTTATT 60 CTCAATCCAA A 71 |
| 35 | SEQ ID NO:5245 SEQUENCE LENGTH:114 SEQUENCE TYPE:nucleic acid TOPOLOGY:linear CLONE:HUMGSO6260 SEQUENCE DESCRIPTION: GATCTGTTGT AATATATGGT GGATATTTTC CTTTAATTTC AAACATAACC TCTGAAATNT 60 GTATCTNTCC TNTTTNATCT TACCATTANT TTTAAATCTA GTGGATTGGT TTTN 114 |
| 45 | SEQ ID NO:5246 SEQUENCE LENGTH:337 SEQUENCE TYPE:nucleic acid TOPOLOGY:linear CLONE:HUMGS06261 SEQUENCE DESCRIPTION: |
| 50 | GATCAGACCG CTCAAAGGTC CCCGTNTTCA CTGTTACCCA GAGGCTCTTG TNACTACCCA 60 CTTCATTCCC CACCGCTGCC AGTGCCACTG CCAACCCTGT TCACAGGCGN TTCCAGGCCA 120 |

| 5 | CTCCAGCCAG GGGAGCAGGG AAGAAGAAGG GGCTCCCTCC TCTTCACATT CCCCCCGACC 180 CCAAAGCCAG AGAAAGCCAG ATGGCACCAG CTGCTCCGGA TGTGCCTGCC CACATTGGGG 240 GACAGGGCCG GGCCTGGGCT CGGTTCCNAG GTTTGAGCTC TGCAGNCTGT GTCCTGGNGT 300 GAGGGGGCTG AAGTNAGNCC AAAGGAAGAA CTNAGTN 337 |
|----|--|
| 10 | SEQ ID NO:5247 SEQUENCE LENGTH:168 SEQUENCE TYPE:nucleic acid TOPOLOGY:linear CLONE:HUMGS06262 |
| 15 | SEQUENCE DESCRIPTION: GATCACCTNA TTTTTTNAAC AAAATATTTN TAACAGGAAT GGGTGGGAGT NCTGGTGAAA 60 AGAGGTGAAA TGTGGTTGTA TGAGCCAATC ATATTTGTAA TTNTTTAAAA AAAGTTTAAA 120 AGGAAATATC TGTCCTGAAA CCCCACTTAA GCATTGTNTT NNTATAAN 168 |
| 20 | SEQ ID NO:5248 SEQUENCE LENGTH:378 SEQUENCE TYPE:nucleic acid TOPOLOGY:linear |
| 25 | CLONE: HUMGSO6264 SEQUENCE DESCRIPTION: GATCAACAAA GAGGACTITG TGGCACTGGA GAGGCTTACC CAGGGGATGG ACATTCAGTG 60 GATGCATGTT NCTGGTCATT CGGGATTTAT AGGCAATGAA GAAGCTGACA GATTAGCCAG 120 AGAAGGAGCT AAACAATCGG AAGACTGAGC CATGTGACTT TAGTCCTTNG GAGAACTTNA 180 |
| 30 | GCCAGCGGCT GTCTTGCTGC CTGTACTTAC TTGTGTGGAA AATAGCCTGC AGGTAGGACC 240 ATTGCAGTGA TGGGCAGATT GGGTCTTTCA CACGGNGTCA GGCACAGTGG CCTTCTGTNG 300 NCATGGTNGT TTTATANANA AATNGGTTAA GGTATATAAA TAAAGTNTGG NCCANCTTTT 380 GNNAAGGNAN GANATGGN 378 |
| 35 | SEQ ID NO:5249 SEQUENCE LENGTH:131 SEQUENCE TYPE:nucleic acid TOPOLOGY:linear CLONE:HUMGS06267 |
| 40 | SEQUENCE DESCRIPTION: GATCANCTAC AGGAAAAGTA AATGTGAACG CAAGCAGAAT GAAACACAGT AAAAGCCGGT 60 CTAGCCTGCC TGGCCACACT CTCAGCGCCT TGTGAGGATG GGNCANTANA TAAANTCATC 120 TTTAGTAGAA A 131 |
| 45 | SEQ ID NO:5250 SEQUENCE LENGTH:322 SEQUENCE TYPE:nucleic acid TOPOLOGY:linear |
| 50 | CLONE: HUMGS06268 SEQUENCE DESCRIPTION: |

| | GATCATCACT AGCAGATGTC | AGTTGCACAT | TGAGTCCTTT | ATGAAATTCA | TAAATAAAGA | 60 |
|----|--|-------------------|--------------------|-----------------|----------------|-----|
| | ATTGTTCTTT CTTTGTGGTT | TTAATAAGAG | TTCAAGAATT | GTTCAGAGTC | TTGTAAATGT | 120 |
| | TATTTTAATA ATCCCTTTAA | ATNTNATCTG | TTGCTGTTAC | CTCTTGAAAT | ATGATTTATT | 180 |
| 5 | TAGATTGCTA ATCCCACTCA | TTCAGGAAAT | GCCAGGNAGG | TATTCCTTGG | GGAAATGGTG | 240 |
| | CCTCTTACAG TGTAAATNTT | NCCTCCTGNA | CCTTTGCTAA | TATCATGGCA | GANTTNNCCT | 300 |
| | NATCCCTTTG TGAGGCAGTT | TN | | | | 322 |
| | * | | | | | |
| 10 | SEQ ID NO:5251 | | | | | |
| | SEQUENCE LENGTH: 215 | | | | | |
| | SEQUENCE TYPE:nucleic | acid | | | | |
| | TOPOLOGY:linear CLONE:HUMGS06269 | | | | | |
| 15 | | | | | | |
| 15 | SEQUENCE DESCRIPTION: GATCAAAAAT AAGATTACAG | TT 1 1 1 1 T 1 TT | NCT LT LTTC L | C 1 TC CTTT 1 C | ACLOOLOGGE | ٠., |
| | GTAGAATCAG ACAGCCCTGA | | | | | 60 |
| | TTAGCCTTAC TAAGCCTGTA | | | • • | | |
| | NTAAANATGT TTTCATTAAA | | | IAAIMDINDD | AIACCIGING | 215 |
| 20 | WILLIAM THORITAN | AANCGITUGE | uonna | | | 215 |
| | SEQ ID NO:5252 | | | | _ | |
| | SEQUENCE LENGTH: 229 | | | | | |
| | SEQUENCE TYPE:nucleic | acid | | | | |
| 25 | TOPOLOGY: linear | | | | | |
| | CLONE: HUMGS06270 | | | | | |
| | SEQUENCE DESCRIPTION: | | | | | |
| | GATCTAAAGT GCAGCAGAGT | GGCTGNTGCT | GCAAGTNATG | TCTAAGGCTA | GGAACTATCA | 60 |
| | GGTGTCTATA ATTGTAGCAC | ATGGAGAAAG | CAANTGTAAA | ACTGGATAAG | TTTATTAAAA | 120 |
| 30 | TGGCAGTTCA GCCCNTTCCC | TTTTTCCCAC | TAANTTTTTN | CTTAAATTAC | CCATGTAACC | 180 |
| | ATTTNANCTC TCCAGTGCAC | TTTGCCATTA | ANGTOTOTGO | ACATTGAAA | | 229 |
| | | | | | | |
| | SEQ ID NO:5253 | | | | | |
| 35 | SEQUENCE LENGTH: 219 | | | | | |
| | SEQUENCE TYPE:nucleic | acid | | | ÷ | |
| | TOPOLOGY:linear CLONE:HUMGS06271 | | | . ` | | |
| | SEQUENCE DESCRIPTION: | | | | | |
| 40 | GATCGTGAAA GAGGCTTACC | CACACCACAC | A.C. A.W.C. TTTC A | CAAAACAAT | CCCC + TT + TY | |
| | ACCCATCTAG CAAAGAGGAC | | | | | |
| | ATGATGAAGC GTTTCATTCC | | | | | |
| | TACTGNTGGC CCCTNAAAAA | | | GICKICKAGG | | |
| | | NINITUITAL | HIGIONOIN | | | 219 |
| 45 | SEQ ID NO:5254 | | | | | |
| | SEQUENCE LENGTH: 144 | | | | | |
| | SEQUENCE TYPE: nucleic | acid | | | | |
| | TOPOLOGY: linear | ~~. ~ | | | | |
| 50 | CLONE · HIMGS06272 | | | | | • |

| 5 | SEQUENCE DESCRIPTION: GATCACGCTG AAAGAATACC AAGGATGAAG CCAACTTTCC AATNAANTNC AGCCNTTCTN | AAAAACTTTT | | | | |
|----|--|------------|------------|------------|------------|----------|
| 10 | SEQ ID NO:5255 SEQUENCE LENGTH:184 SEQUENCE TYPE:nucleic TOPOLOGY:linear CLONE:HUMGS06273 | acid | | | | |
| 15 | SEQUENCE DESCRIPTION: GATCCCGGGG ACATGATGCG GAGCAGAGNG AGCGCTTCTN GTGCAGTGGG AAATGGGAAG TNTN | GCTCTNCTGC | GTCCACGGAG | ATGGGCACGC | GGAGAACCTC | 120 |
| 20 | SEQ ID NO:5256 SEQUENCE LENGTH:97 SEQUENCE TYPE:nucleic TOPOLOGY:linear | acid | | | | |
| 25 | CLONE:HUMGS06274 SEQUENCE DESCRIPTION: GATCAATGTG GGCACCTAAA TGAATAAGTC TTCAATAGAA | | | TTTCTCAGGT | CAAAATACTG | 60 97 |
| 30 | SEQ ID NO:5257 SEQUENCE LENGTH:173 SEQUENCE TYPE:nucleic TOPOLOGY:linear | acid | | • | | |
| 35 | CLONE:HUMGS06275 SEQUENCE DESCRIPTION: GATCATATCT ACATGTATGA TTTGTAAGTA CTTATAACAT TTGTTTCTGT AGTTTAATTA | GGTGTATCTN | TNTNCTTATG | AATATNCTGT | ATTATAACCA | |
| 40 | SEQ ID NO:5258 SEQUENCE LENGTH:176 | | | | | |
| 45 | SEQUENCE TYPE:nucleic TOPOLOGY:linear CLONE:HUMGS06277 SEQUENCE DESCRIPTION: | acid | | | | |
| | GATCTTTCTG GGAGCTGCGC TGATATCCAT GCCACGTCCA ATTNGATNTN TGTAAAAAAA | TCCACCCCAC | CCCTNTTCGT | CACGAGCACA | ATGGTCTTAC | |

| 5 | SEQ ID NO:5259 SEQUENCE LENGTH:93 SEQUENCE TYPE:nucleic TOPOLOGY:linear CLONE:HUMGSO6278 SEQUENCE DESCRIPTION: | acid | | | | |
|----|--|--|---|--|--|------------|
| 10 | GATCATTTGA ACCTAGGAGT CCTTGGACAA CAGAGTAAGA | | | AATTGCACCA | CTGNATTGCA | 60 93 |
| 15 | SEQ ID NO:5260 SEQUENCE LENGTH:296 SEQUENCE TYPE:nucleic a TOPOLOGY:linear CLONE:HUMGSO6279 SEQUENCE DESCRIPTION: | acid | | | | |
| 20 | GATCAGGAGG CCACCCCTT C TGGGGGTGGG GAAGGAAAGA C AGACACCCTG TGATGAAGAG T CAGGNCCCAC GATGGGTTTA T CTACCCTTCT NNGGGAATAA A | GCGGCCCCAT TCCAAGAACA TNTTTTGGGA | TATTCCAGAA GCCTGAGATA CCAAGACATT | CATTTTATCC AGGATGTCAT GGGTCCCTAC | ACACAGGCTC TNTTNTTTCA ATGTTTTCCC | 120 180 |
| 25 | SEQ ID NO:5261 SEQUENCE LENGTH:61 SEQUENCE TYPE:nucleic a TOPOLOGY:linear CLONE:HUMGS06280 | acid | | | | |
| 30 | SEQUENCE DESCRIPTION: GATCTATTGA CTTGTAGAGG T A | TTTGGGACAA | ACAGGAATAT | AAAGATTATG | GAATTGGGAA | 60 61 |
| 35 | SEQ ID NO:5262 SEQUENCE LENGTH:339 SEQUENCE TYPE:nucleic a TOPOLOGY:linear | acid | | | | |
| 40 | CLONE:HUMGS06281 SEQUENCE DESCRIPTION: GATCACTGCA AAACTCAAGG A | AGGCCCGGGG | CAGAGGAAAA | AAATTTACCA | CCGATGATTC | 60 |
| 45 | CATTTGTGTG CTGGGAATAA G GAAGCAAACG GATTTTAAGC A CCTCATGAAA ATCCTGGCCA A GGAANCATGT GCAGNNCTGG N CGTGGNCTGT CTCTTTTTG T | GCAAAAGAAA ACAGGATTCC AGTACAAGGC NGTGTCTGAC | CGTTATTTT CAAAGANCAG CAGCTATGAC CCAGTCCCGN | NAACCTGTGG TGGTGGCTCA GTGTCGGACT | CAGAGCTGAA AGCTACGGCC CAGGCCAGCT | 180 240 |
| 50 | SEQ ID NO:5263 SEQUENCE LENGTH:258 | | | | | . • |

| | SEQUENCE TYPE:nucleic | acid | | | | |
|----|------------------------|------------|------------|------------|------------|-----|
| | TOPOLOGY:linear | | | | | |
| | CLONE: HUMGS06282 | | | | | |
| 5 | SEQUENCE DESCRIPTION: | | | | | |
| | GATCTTATCT ACTTTCTCAT | | | | | |
| | AAATGGTTTA TTCTACCTAA | | | | | |
| | ATAAGCAAAG TTTATTTAAN | CTAAATTTAA | ATGTGAAACA | TCACCTTTTT | CCTANTCAGA | 180 |
| 10 | TTTGATATTG CTACGGATAT | ATNTTGNTGA | TATNGTCACT | ATATANNCAT | ANGGGGANTT | 240 |
| 10 | TNACTNTCTA TTACCCTN | | | | | 258 |
| | | | | | | |
| | SEQ ID NO:5264 | | | | | |
| | SEQUENCE LENGTH: 102 | | | | | |
| 15 | SEQUENCE TYPE:nucleic | acid | | | | |
| | TOPOLOGY: linear | | | | | |
| | CLONE: HUMGS06283 | | | | | |
| | SEQUENCE DESCRIPTION: | | | | | |
| | GATCTCTCTC CTCTCTGACC | TGGATACGCT | TTGGTTTCTC | AACTTCTCTA | CCCCAAAGAA | 60 |
| 20 | AAGATTATTC AATAAAGTTT | CCTGCCTTTC | TGCAAACATA | AA | | 102 |
| | | | | | | |
| | SEQ ID NO:5265 | | | | | |
| | SEQUENCE LENGTH: 196 | | | | | |
| 25 | SEQUENCE TYPE:nucleic | acid | | | | |
| | TOPOLOGY:linear | | | | | |
| | CLONE: HUMGS06284 | | | | | |
| | SEQUENCE DESCRIPTION: | | | | | |
| | GATCTAGATT TGAAAGTAAA | TNTTATGAAG | ACATTGCCCA | TTTTTACTTC | CTCATTCATT | 60 |
| 30 | ATTGTACCAG CATCATAGCT | TTATTACTCT | AATCCCAGGT | AAGTCAAGCC | TACACTGCCC | 120 |
| | TAGNGGNNGC GTAAACCCAG | AANTTCATGC | TGGCTTAANT | AATCTATTTT | TGTTTCTNAT | 180 |
| | CNTTTGAATN TTTAAN | | | | | 196 |
| | | | | | | |
| 35 | SEQ ID NO:5266 | | | | | |
| | SEQUENCE LENGTH: 203 | | | | | |
| | SEQUENCE TYPE:nucleic | acid | | | | |
| | TOPOLOGY:linear | | | | | |
| • | CLONE: HUMGS06286 | | | | | |
| 40 | SEQUENCE DESCRIPTION: | | | · . | | |
| | GATCAGCCTG GGCAACATGG | TGAGACCCTG | TCTCTACAGA | AAAGACCTGA | AAATTTTAAA | 60 |
| | AAAAAGTATA AAGCCAAGCT | GTTACCCAGC | CACCTTGCTC | ACATATTCTC | AGGACCTGCT | 120 |
| | GAGGTGGTTT CACAGGTCAT | | TTTGCTCAGA | ATAAATATCT | TCAAATATTT | 180 |
| 45 | AAANNNIGGN NANAATNIT | GNN | | | | 203 |
| | | | | | | |
| | SEQ ID NO:5267 | | | | | |
| | SEQUENCE LENGTH: 136 | | | | | |
| | SEQUENCE TYPE: nucleic | acid | | | | |
| | PODOLOGY . 1 | | | | | |

| 5 | CLONE: HUMGSO6288 SEQUENCE DESCRIPTION: GATCTGGACT ATCCACGTGC TGCTGGGATG AATGTTTTTA GCCAGGTACC CTTAAA | TTTGAAACTT | | | | 60 120 136 |
|----|--|--------------------------|--------------------------|--------------------------|------------|------------------|
| 10 | SEQ ID NO:5268 SEQUENCE LENGTH:71 SEQUENCE TYPE:nucleic TOPOLOGY:linear | acid | | | | |
| 15 | CLONE: HUMGSO6289 SEQUENCE DESCRIPTION: GATCTNGGAC TACNACTGGA TCTAAGCCAA A | CTACTAGCCT | CCAGAACTAT | NAAATAATAC | ATTTCTAATG | 60 71 |
| 20 | SEQ ID NO:5269 SEQUENCE LENGTH:345 SEQUENCE TYPE:nucleic TOPOLOGY:linear | acid | the c∦r tri | • • | | |
| 25 | CLONE:HUMGS06290 SEQUENCE DESCRIPTION: GATCGGTTTT TGTGGGGAAT TTCTGGACTG TGGAAGTATC GCAAAGGGTT TGGCTATGTG | CTCCCTTATA ATGGCCGTGA | GGATTGTNAG | AGACAAAATG | ACAGGCATCG | |
| 30 | TAAATAATTC TGAACTCATG AATTTAANCA ACAAAATTCA TTAATTTTAC TTCCAAAACT | GGGAGAAAAC AATCCACGAT | TCAGAGTCAT TGANGAATGT | GCGTTCTGTT CAGTAAACCT | AATAAAGAAA | 240 |
| 35 | SEQ ID NO:5270 SEQUENCE LENGTH:132 SEQUENCE TYPE:nucleic TOPOLOGY:linear CLONE:HUMGS06291 | acid | | | | |
| 40 | SEQUENCE DESCRIPTION: GATCTCTGCT GTGCAGGTGC TACAACTGAC ACTGCCATTT TCTNCGGTTA AA | TAAGATTAAA | | | | |
| 45 | SEQ ID NO:5271 SEQUENCE LENGTH:111 SEQUENCE TYPE:nucleic TOPOLOGY:linear | acid | | | | |
| 50 | CLONE: HUMGS06292 SEQUENCE DESCRIPTION: GATCTTCTGC CAAGTAATT | | TTTTCCTGTN | CCAAANTTTA | CTCAGTTAAA | 60 |

| | AGTAAAANAA TNCTTTACAC | GTTTTAGGTT | TTAGGACATT | AAAAGTATGT | N . | 111 |
|----|---|--------------------------|---|--------------------------|--------------------------|------------------|
| 5 | SEQ ID NO:5272 SEQUENCE LENGTH:117 SEQUENCE TYPE:nucleic TOPOLOGY:linear | acid | | | | |
| 10 | CLONE: HUMGS06293 SEQUENCE DESCRIPTION: GATCATCTTA CGATATCAAG ACTGGGAATA TTTTTCTTT | | | | | 60 117 |
| 15 | SEQ ID NO:5273 SEQUENCE LENGTH:232 SEQUENCE TYPE:nucleic TOPOLOGY:linear CLONE:HUMGS06294 | acid _. | | | | |
| 20 | SEQUENCE DESCRIPTION: GATCATATTC ATTATGAAAG AGGAAGTATG GGAACTAACTAT TANTTNTACA NGCTTTCATG | TANGGAAATC GATAAATGTG | CAGAAAGANG ANGAGGATTC | CCAAGATATA TNTTTTNTTG | TCCTTATTTC TGACCTATAA | 120 |
| 25 | SEQ ID NO:5274 SEQUENCE LENGTH:56 SEQUENCE TYPE:nucleic | | 41001181001 | | | |
| 30 | TOPOLOGY:linear CLONE:HUMGSO6295 SEQUENCE DESCRIPTION: GATCAAGTAT AATGTTAGCT | GCAGGTTTTT | AATAAATACC | TTAATTCAGT | TTGAAA | 56 |
| 35 | SEQ ID_NO:5275 SEQUENCE LENGTH:125 SEQUENCE TYPE:nucleic TOPOLOGY:linear CLONE:HUMGS06296 | acid | | | | |
| 40 | SEQUENCE DESCRIPTION: GATCCTGAAC ATGTGCTGAT GTATTTCTGC AACGTGACCT CCNTN | | • | | | 60 120 125 |
| 45 | SEQ ID NO:5276 SEQUENCE LENGTH:198 SEQUENCE TYPE:nucleic TOPOLOGY:linear | acid | | | | |
| 50 | CLONE: HUMGS06297 | | | | | |

| | SEQUENCE DESCRIPTION: |
|----|---|
| | GATCATTGGT TCCANNCACA GGTNTAGTAA TNNTGGGTAC TTTAAGGTTT GGAGCACTTA 60 |
| | CAAGGCTGTG GTAGAATCAT ACCCCATGGA TACCACATAT TAAACCATGT ATATCTGTGG 120 |
| 5 | AATACTCAAT GTGTACACCT TTNACTACAG CTGCAGAAGT GTTCCGGNTA GACAAAGTTG 180 |
| | TGACCCGGGG NNCTCTGN 198 |
| | SEQ ID NO:5277 |
| | SEQUENCE LENGTH: 231 |
| 10 | SEQUENCE TYPE: nucleic acid |
| | TOPOLOGY: linear |
| | CLONE: HUMGS06299 |
| | SEQUENCE DESCRIPTION: |
| 15 | GATCTCAAGT TGTATAAAAC CAATAAATTT GTGTTACTGC AGTAGTAATC TTATGCACAC 60 |
| | GGTGATTTCA TGTTATATAT GCAAAGNAGG CAACTGTTTT CTTAGTTACA GAAGTTTCAN 120 |
| | GCTTCACTTT TGTGCAGTAG AAACAAAAGT AGGCTACAGT CTGTGCCATG TTGATGTACA 180 |
| | GTTTCTGAAA TTGTTTTACA AGACTTTGAT AATAAAACCC TTAANCTTAA A 231 |
| 20 | SEQ ID NO:5278 |
| | SEQUENCE LENGTH: 180 |
| | SEQUENCE TYPE:nucleic acid |
| | TOPOLOGY: linear |
| 25 | CLONE: HUMGS06300 |
| | SEQUENCE DESCRIPTION: |
| | GATCAAGNGC CATAGCCTTT ATTCAGGGGG CCTATAAACC CTTCCAGTTC TTGCCCCAGG 60 |
| | GCTGGCCTGC TAGCGCTTCA AATTCCCAGG TGTCCCTAAT TTNAGAAGTA ACCTTTTGGA 120 |
| | ATAGCATTAG ACCCTGGCTG TCCCCTCCCC ACCAAATAAA CATGATATTT CATTCTNAAA 180 |
| 30 | |
| | SEQ ID NO:5279 |
| | SEQUENCE LENGTH: 158 |
| | SEQUENCE TYPE:nucleic acid |
| 35 | TOPOLOGY:linear |
| | CLONE: HUMGS06301 |
| | SEQUENCE DESCRIPTION: |
| | GATCAAGNNT ANTGCAGCCN TTCTTTTCCT ATTTCTTTTT TTNAAGGGTT AGTATTAACA 60 |
| | AATGGCAATA AGTAGAAAAG TTAACATGAA GATTTTAGAA GGAGAGAACT TACAGGACAC 120 |
| 40 | AGATTTGTNA TTCTTTGACT GTNACACTAT TGGATGTN 158 |
| | SEQ ID NO:5280 |
| | SEQUENCE LENGTH: 375 |
| 45 | SEQUENCE TYPE: nucleic acid |
| 45 | TOPOLOGY:linear |
| | CLONE: HUNGS06302 |
| | SEQUENCE DESCRIPTION: |
| | GATCGAACAT NACGTGGTGA TGAAAGCCAN CAGCAGCCTA CCCAAGAAGC TGGCACTGCT 60 |
| 50 | GAAGGCCCCA GCCAAGAAGA AAGGGGCAGC TGCCGCCACC TCCTCCAAGA CACCTTCCTG 120 |

| | AGGACGCTGG CCCCAGTGC | A GGCCAACATO | NCACCCCCTA | CCTCCATATG | GGACCTTGCA | 180 |
|----|------------------------|--------------|------------|------------|------------|------|
| | GGTAATCCCA CAGGCTGCA | C TGTCAGGGG | GGGACCCTGT | CCCCCAGCAC | TGGGCTTCAC | 240 |
| 5 | CTAGAACTTC AGTGGGGGC | C AAGGGTGCTG | AGAACCCAGC | AATGNCCAGG | ANGATACAGT | 300 |
| 3 | CACTAAACTT CATCTGTCC | C CGTGCCCCTT | CCCAGGTCCT | GNTTCACAGG | TTTAACCCAG | 360 |
| | NACANTAAAN CCTNN | | | | | 375 |
| | | | | | | |
| | SEQ ID NO:5281 | | | | | |
| 10 | SEQUENCE LENGTH: 272 | | | | | |
| | SEQUENCE TYPE:nuclei | c acid | | | | |
| | TOPOLOGY: linear | | | | | |
| | CLONE: HUMGS06303 | | | | | |
| | SEQUENCE DESCRIPTION | | | | | |
| 15 | GATCAGGATG AGATTTAAT | | ACCAGTTCAG | TAATCTCCAG | AGCCATTTCA | 60 |
| | CCCTTTAGAG TGAGTCACA | | | | | |
| | TGCCTTACCC TTAATCTGT | | | | | |
| | TTATGGGATA GGAAAATGA | | | | | |
| | TTTTCATCAA AATAAAATT | | | AAAIGAIIGI | AAACIIUAUI | 272 |
| 20 | IIIIOAICAA AAIAAAAII | CALIGITIE | AA. | | | 212 |
| | SEQ ID NO:5282 | | | | | |
| | SEQUENCE LENGTH: 379 | | | | | |
| | SEQUENCE TYPE:nucleio | | | | | |
| 25 | TOPOLOGY: linear | aciu | | | | |
| | CLONE: HUMGS06304 | | | | | |
| | | | | | | |
| | SEQUENCE DESCRIPTION | | | | | ~~ |
| | GATCCAAGGC CACAAGTAA | | | | • | 60 |
| 30 | TGGCAAAACC. ACCTCCCTG1 | | | | | |
| | CAAAGCAGAC TGAGGAGGGA | | | | | |
| | AGAACTAGAC ACCCTTGAAG | | | | | |
| | AAGGGATGTG CAGGGTGGGG | | | | | |
| 35 | AGCGTGCAGA CGCGTGTCC | T ANTTNATCTG | CTCCCACGGA | TGANCCTGGT | CTTCAATGGG | - |
| 35 | TTAGCAGNNG NGAGATNTN | | | | | 379 |
| | | | | | | |
| | SEQ ID NO:5283 | | | | | |
| | SEQUENCE LENGTH: 377 | | | | | |
| 40 | SEQUENCE TYPE:nucleio | acid | | | | |
| | TOPOLOGY: linear | | | | | |
| | CLONE: HUMGS06305 | | | | | |
| | SEQUENCE DESCRIPTION | | | | | |
| | GATCCTCTGA AAAGGCCCA | AAAAATAGCT | CAGTTCAAAT | ACAATGTTCT | AGGACAATTG | 60 |
| 45 | GAATATAAAT ATTGTCCAA | ATTATAATTA | AAAGAAAAA | GTTTAGCACT | GTGTAAAGTA | 120 |
| | AGTGTTAACT GAGGAAGTC | CAAAAAGGTG | CTGTCACTTT | AAGTTCTGGA | CTTGGGGTTC | 180 |
| | TTTGTATTTG TAAACAGCA | NGCATTTGTG | TTTGTTTGTC | TATTTGTAAA | GCANCCACCT | 240 |
| | TCCTTATTGG NAGGNGANA | NNNGGGGTNC | ATNCATGTNA | NTACTTGCTG | CAGCATTTNA | 300 |
| 50 | TATGTTTNAT TTTGTGTTAL | GCTTTTTGTT | GCATCGTGNN | CACATTTATT | GTTACCAATG | 360 |
| 00 | CLCLTCCCTT CTTCCT | | | | | 0.00 |

| 5 | SEQ ID NO:5284 SEQUENCE LENGTH:151 SEQUENCE TYPE:nucleic acid TOPOLOGY:linear CLONE:HUMGS06306 SEQUENCE DESCRIPTION: | |
|-----------|---|----------------|
| 10 | GATCGTAGTG TNTTTAAATA AACACAGTCC AGACTCAAAC GGAGGAAGCC CACATATTCT ATTATAGATA TATAANTANI CACACACACA CTTGCTGTCA ATNTTTTGAG TCAGTGCATT 1 TCAAGGAACA GCCACANAAT ACACACCCNN N | 60 20 51 |
| 15 | SEQ ID NO:5295 SEQUENCE LENGTH:325 SEQUENCE TYPE:nucleic acid TOPOLOGY:linear CLONE:HUMGS06307 SEQUENCE DESCRIPTION: | |
| 20 | GATCAACTGA GGAAACTCCA GGCCATGGTG ATTGANATAT CAAACAAAAC CAGCAGCAGC 6 AGCACCTGCA TCTTGGTCCT ACTAGTCTCC TTCTGCCTCC TCCTTGTACC TGCTATGTAC 12 TCCTCTGACA CAAGGGGGAG CCTGCCAGCT GAGCATGGNG TGTTGTCCCG CCAGCTTCGT 18 GCCCTCCCCA GTGAGGACCC TTACCAGCTG GAGCTGCCTG CCCTGCAGTC AGAAGTGCCG 24 AAAGACAGCA CACACCAGTG GTTGGACGGC TCAGACTGTG TACTCCAGGN CCCTGGCAAC 30 | 80 40 |
| 25 | ANTTCCTGCC TGCTGCATNA CNGAN 32 | 25 |
| 30 | SEQ ID NO:5286 SEQUENCE LENGTH:204 SEQUENCE TYPE:nucleic acid TOPOLOGY:linear CLONE:HUMGS06308 SEQUENCE DESCRIPTION: | |
| 35 | GATCTGCCTC CTGGGAAGGG AAGGGGCCAA TGTCAGCCTC CAGGTGATTT CTTTAATCTG 6 ACATTACAAA GAGACCAACA GACTGCCAAT TCTACCACAT TCCCCTGGTG GGTACTCGAC 12 TATGTAGTTT TNTCTATGCT TCTGGTCAAC TCTGACACAT CTTGGAATTC TTGTAATAAG 18 AAAAGAAATT TTTATACTTT TAAA 20 | 0 |
| 40 | SEQ ID NO:5287 SEQUENCE LENGTH:219 SEQUENCE TYPE:nucleic acid TOPOLOGY:linear CLONE:HUMGS06309 | |
| 15 | SEQUENCE DESCRIPTION: GATCCTCAAA CAGTCGGACC AGATGACAGC CAAACTCTGC TAACCCGGGA CTCCTTGCCA 60 TGGACTTTC CTGTTGTTGT ACACACACAA CAGAACAAAA TGANGCAAAA CAAAACAAAA 120 AAACCCACAA AANTTTGTAA AATGTAATTA ATATTCAANG AAAAGGNGGA AANTCTTCAT 180 TTGTTGGAAA TGAAANCGTT CTAGCAACTG TAANNNANN 219 | 0 |
| | | |

| | SEQ ID NO:5288 |
|----|---|
| | SEQUENCE LENGTH: 259 |
| | SEQUENCE TYPE: nucleic acid |
| 5 | TOPOLOGY: linear |
| | CLONE: HUMGS06310 |
| | SEQUENCE DESCRIPTION: |
| | GATCTTAAAA TTCATCTAGA TTTCAAGCAT TCAGCTGACT TGCCTCATAA ATGTAGTGAC 6 |
| | TGCTTGATGA GGTTTGGAAA TGAAAGGGAA TTAATAAGTGAC 6 |
| 10 | TGCTTGATGA GGTTTGGAAA TGAAAGGGAA TTAATAAGTC ACCTTCCAGT CCATGAGACA 12 |
| | ACTNGATTAT TCTCTNTAAC TTACAGAATG TTAGTNTAAA ATAATAAATN CATCCTTNTT 18 |
| | TTGGAGATGA TTAAATGGAT GATTGTAAAC ACAACTTATG AAATCTGCCT NTAACAAGTA 24 NCTTTNTTAA ATNNTANNN |
| | ACTITUTERA ATMITANIN 25: |
| 15 | SEQ ID NO:5289 |
| 15 | SEQUENCE LENGTH: 99 |
| | SEQUENCE TYPE:nucleic acid |
| | TOPOLOGY: linear |
| | CLONE: HUMGSO6311 |
| 20 | SEQUENCE DESCRIPTION: |
| | |
| | GATCTTATTG GCTGATGGTG TTGTTGAATT CTATATCCTG TTGATTTGCT GTCTAGTTGT 60 |
| | TCTATCAATT ATTAAAAGAG GAATGTTAAT GTTTCCAAA 99 |
| | SEQ ID NO:5290 |
| 25 | |
| | SEQUENCE LENGTH: 81 |
| | SEQUENCE TYPE:nucleic acid TOPOLOGY:linear |
| | CLONE: HUMGSO6313 |
| 30 | |
| | SEQUENCE DESCRIPTION: |
| | GATCAAATAC TITAAAGGAA AAAATGITGG ATTTATAAAT NCTATTTTT ATTTTACTTT 60 |
| | TATAATAAAA GGAAAAGCAA A 81 |
| | SEQ ID NO:5291 |
| 35 | SEQUENCE LENGTH: 132 |
| | SEQUENCE TYPE:nucleic acid |
| | TOPOLOGY: linear |
| | CLONE: HUMGS06314 |
| 40 | SEQUENCE DESCRIPTION: |
| - | |
| | GATCTGAAGG CCGTTCCAAG CGAGGGTGCT TCTGAGGACA CTGAGAAGAG TTTTGCCATT 60 |
| | CTGAAGAGGC GAGCCTGTGG AACTNTTTAA GGTCCTGTTC CCAGAAGAAT AAAAGTTTCT 120 |
| | CATTATGGCA AA 132 |
| 45 | TO 10 MO. 2000 |
| | SEQ ID NO:5292 |
| | SEQUENCE LENGTH: 102 |
| | SEQUENCE TYPE: nucleic acid |
| | TOPOLOGY: linear |

| 5 | i | CLONE: HUMGSO SEQUENCE DES GATCACTOTO | SCRIPTION: CCTGACATCC | | | | ттстстттст | |
|----|-----|--|--|------------|------------|------------|------------|------------------|
| | | CCAATCAAGA / | MIAAIAAIC | CCTCGAGTTT | AUAAAAUAUA | AA | | 102 |
| 10 | o | SEQ ID NO:52 SEQUENCE LEM SEQUENCE TYP TOPOLOGY:1in CLONE:HUMGSO | IGTH:196 PE:nucleic near | acid | | | | |
| 15 | | SEQUENCE DES GATCTCANCT I AAGGNCTACT A ACCCTGGCGT T ATTGAAGNTA G | CATGCCAGG TNATGCCTA GGCTTTCAA | TCTGAAGCNC | TGTTTGCAGC | ATCAGGAAGT | GAAGCCCTAC | |
| 20 | | SEQ ID NO:52 SEQUENCE LEN SEQUENCE TYP TOPOLOGY:lin | GTH:237 E:nucleic | acid | | | | |
| 25 | 5 | CLONE: HUMGSO SEQUENCE DES GATCAAGAAG T AGAAGTGAAT C. | 6317 CRIPTION: TTGTGTACA AAAATATTT | CAAAATGCTG | TCTTATGAAA | CTACAATATT | CTCACAGATT | |
| 20 | | AGAAAAGTTT TI ANCTNCTCAA C' | | | | | | 180 237 |
| 35 | 5 | SEQ ID NO:52: SEQUENCE LENG SEQUENCE TYPE TOPOLOGY:1ind CLONE:HUMGSOG SEQUENCE DESC | 95 GTH:125 E:nucleic ear 6318 CRIPTION: | acid | | | | 231 |
| 40 | , | GATCACTACC II ATGATTGTAA GO TTAAA | | | | | CTTTTGTAAA | 60 120 125 |
| 45 | 5 | SEQ ID NO:529 SEQUENCE LENG SEQUENCE TYP! TOPOLOGY:line CLONE:HUNGSOG SEQUENCE DESG | GTH:198 E:nucleic ear 5319 | acid | | | | |
| 50 | , (| GATCTTACAG AC | TGTATCAG | | | | | |

| | ACATAGCTAA GGTAATGAAC ATC | TTTTTCA GTAATTGTAA | AGTGATTTAT TCAGANTAAA | 180 198 |
|-----|--|---|------------------------|------------|
| 5 . | SEQ ID NO:5297 | | | , |
| | SEQUENCE LENGTH: 129 SEQUENCE TYPE: nucleic acid | d | | |
| 10 | TOPOLOGY: linear | _ | • | |
| 70 | CLONE: HUMGS06320 SEQUENCE DESCRIPTION: | | | |
| | GATCTAATTT CCCTNTTCAC ACAA NNAGTGAACA TCATCTTGTT AGCT | | | |
| 15 | GTATGATNN | | | 129 |
| | SEQ ID NO:5298 | , | | |
| | SEQUENCE LENGTH: 143 SEQUENCE TYPE: nucleic acid | i | | |
| 20 | TOPOLOGY: linear | | | |
| | CLONE: HUMGS06321 SEQUENCE DESCRIPTION: | | | |
| | GATCTGTGCC ACTTGTGTCA GAGA | AAGAAGA AACACGTAGN (| GCAAGTTGTA AAATAATTGG | 60 |
| 25 | TATTCCTAAC AATCCTGATG TATA | | | |
| 20 | AAAAGTGCTG GGACTAGATT AAA | | | 143 |
| | SEQ ID NO:5299 | | | |
| | SEQUENCE LENGTH: 334 SEQUENCE TYPE: nucleic acid | • | | |
| | TOPOLOGY: linear | • | | |
| | CLONE: HUMGS06322 | | | |
| | SEQUENCE DESCRIPTION: GATCTCTTCG ACTCCTACGA CCTT | *************************************** | TTC 07000 0000000000 | •• |
| 35 | CCCAGCAGCC TGCCCCCGAC TCTA | | | |
| | ACAGGGACAT TGGACACTAG GTGC | TGCCCT CAGGGCATGG | GTCTCCTCG CCTTTCCTGC | 180 |
| | CCCAGCCGGC AGAAGCTGTG TGGG GTGGTCCTCA CCTTNCTAAT GGAA | | | |
| 40 | CTNGACCTCT NACAAGAAGG NTGC | | | 300 334 |
| | SEO ID NO. FOOD | | | |
| | SEQ ID NO:5300 SEQUENCE LENGTH:337 | | | |
| | SEQUENCE TYPE:nucleic acid | l | | |
| 45 | TOPOLOGY: linear | | | |
| | CLONE: HUMGS06323 SEQUENCE DESCRIPTION: | | | |
| | GATCTGGAGC CAGCTGGCTT TGCT | CCGTTC CCTGGCTAGT C | TGTGCCTGG TCACCAGGGA | 60 |
| 50 | GGCTGAGTGA GGGGCTGTGA ACAG | TTGCCG GAAGCACCCC C | TCCCTCCCC GGCCCGTGCA | 120 |
| | GCAGTGTCTG AGCTGTAGTG AAAG | TTTCAG GGCCTGCAAA A | GAAGAGGCT TGGGCACAGG | 1 20 |

| | ACTGACCATN GCTCCAGGGG ACCTTTNACG CAGGCTTTGG AATNCAAAAG GTTTCTGGGC | TATGTTCTCT | NAGGCTTAGT | | | |
|----|---|------------|--------------------|------------|------------|------------|
| 5 | SEQ ID NO:5301 SEQUENCE LENGTH:326 | | , | | | |
| 10 | SEQUENCE TYPE:nucleic TOPOLOGY:linear CLONE:HUMGS06324 | acid | | | | |
| | SEQUENCE DESCRIPTION: GATCACAGCT CCAGGACCAG | TGCAGGCTGG | ですらぐぐぐずぐず す | TTGGCCGCGT | CTGGLATLAT | 60 |
| | GGACGCCGCT GGCAGTCCAG TCACATACAG AAAAAAAGCTA | ACATCAATTC | AAAACTGAAG | CTGCAGCAAT | GAAGAAGCAG | 120 |
| 15 | GTCAACAAAC CCCTATTATA AGNCATACTC ATTCATTTGA | CCTTCCACCA | AATTCTTTAT | CATTGTCTTT | CTTAGGAAAC | 240 |
| | TTNGGNNNNN TTGTGGTGGT | TGNGNN | | | | 326 |
| 20 | SEQ ID NO:5302 SEQUENCE LENGTH:174 | ., | | | | |
| | SEQUENCE TYPE:nucleic TOPOLOGY:linear CLONE:HUMGS06325 | acid | | | | |
| 25 | SEQUENCE DESCRIPTION: GATCTTTNAT TTACCTGTAC | AGGAGTGTAA | ACTTTTTNGT | GNTTTTÄTTT | TTCAATTGTG | 60 |
| | AGAACCACTG ATTGGTATGT CTATATANGG GAAACTACCT | | - ' | | | 120 174 |
| 30 | SEQ ID NO:5303 | | | | | |
| | SEQUENCE LENGTH: 104 SEQUENCE TYPE: nucleic | acid | | | | |
| 35 | TOPOLOGY:linear CLONE:HUMGS06326 SEQUENCE DESCRIPTION: | | | | | |
| | GATCAGTGAT ATTTGATGTT GATGGTGTAC TTAATCAATA | | | | GCCTATACAA | 60 104 |
| 40 | SEQ ID NO:5304 | | | | | |
| | SEQUENCE LENGTH: 238 SEQUENCE TYPE: nucleic | acid | | | | |
| 45 | TOPOLOGY:linear CLONE:HUMGS06327 SEQUENCE DESCRIPTION: | | | | | |
| | GATCCTTCCG TCTCAGCTCC | | | | | |
| 50 | CCTGGCTAAT TTTTTNATTT GAACTCCTGG GCTCAAGTGA | | | | | |

| | CATGAGCCAC TGTG | TCCGAC (| CCANACCTAC | TANTGTTAAT | NGANNTTTTN | TTAACTNN | 238 |
|----|-------------------|----------|------------|------------|------------|------------|-----|
| | SEQ ID NO:5305 | | | | | | |
| 5 | SEQUENCE LENGTH | : 132 | | | | | |
| | SEQUENCE TYPE:n | | acid | | | | |
| • | TOPOLOGY: linear | | | | | | |
| | CLONE: HUMGS0632 | - | | | | | |
| 10 | SEQUENCE DESCRI | | | | | | |
| | GATCAACAGA GTGA | | | | | | |
| | ATTGTGTAGC TCAG | TATAGT A | ATCAAGATTA | ATCTGCCTAC | TCACATTTCT | ACACTTTATA | |
| | MMANIGIAAT AN | | | | | | 132 |
| 15 | SEQ ID NO:5306 | | | | | | |
| | SEQUENCE LENGTH | | | | | | |
| | SEQUENCE TYPE:n | ucleic a | acid | | | | |
| | TOPOLOGY: linear | | | | | | |
| 00 | CLONE: HUMGS06330 | | | | | | |
| 20 | SEQUENCE DESCRIE | | | | | | |
| | GATCCAGCCA TNACT | | | | | | 60 |
| | ATAAAGCACC TTGA | | | | | | |
| | GGANCACATC CTATT | | | | | | |
| 25 | CTTGTATAAA TACAT | | | | | | |
| | TIGINCICIO GOAR | IIIAAA N | IGANNGICAG | IAAAIIRIII | INCITUINAA | AUN | 293 |
| | SEQ ID NO:5307 | | | | | | |
| | SEQUENCE LENGTH: | 228 | | | | | |
| 30 | SEQUENCE TYPE: nu | cleic a | icid | | | | |
| | TOPOLOGY: linear | | | | | | |
| | CLONE: HUMGS06331 | | | | | | |
| | SEQUENCE DESCRIP | | | | | | |
| 35 | GATCAAAACC CAGCA | | | | | | |
| | ACCINCACTG TAATA | | | | | | |
| | TGNCTTGGTA GACTA | | | | | | |
| | ATTIGITETY COLA | CAINI I | AACIAGIII | INNIGCUAGE | NAIGIIGN | | 228 |
| 40 | SEQ ID NO:5308 | | | | | | |
| | SEQUENCE LENGTH: | | | | | | |
| | SEQUENCE TYPE:nu | cleic a | cid | | | | |
| | TOPOLOGY: linear | | | | | | • |
| 45 | CLONE: HUMGS06332 | | | | | | |
| ·- | SEQUENCE DESCRIP | | | | | | |
| | GATCCCTGAA GTTGC | | | | | | 60 |
| | TACATGAGCT GTCTC | AAAGC C | CTCCAATAA | ATTCTCAGTG | TAAGCTTCTG | AAA | 113 |
| 50 | SEQ ID NO:5309 | | | | | | • |

| 5 | SEQUENCE LENGTH: 154 SEQUENCE TYPE: nucleic TOPOLOGY: linear CLONE: HUMGS06333 | acid | | | | |
|----|---|--------------------------|--------------------------|------------|------------|------------------|
| 10 | SEQUENCE DESCRIPTION: GATCTGTCAC TGTCTCCCGT CAGGGCTCCC ACTGAGTCTC ATGTAATANT AGTAGAANTA | TGTGATNGTG | AGTTGTAGAA | | | 60 120 154 |
| 15 | SEQ ID NO:5310 SEQUENCE LENGTH:214 SEQUENCE TYPE:nucleic TOPOLOGY:linear CLONE:HUMGS06334 SEQUENCE DESCRIPTION: | acid | | | | |
| 20 | GATCTCTTC CCTGTCTTGG CTAGTTTGGG GTACACAGAC TCTCGCCAGT NTNTTGTTGT CAAGAGGAGT TNGTGTTCTT | CAGTGTTCCT NCTTAATGGG | NATTGACAGT CTCCTCCTTG | GTTCAATAAG | GCCCCGTCAT | |
| 25 | SEQ ID NO:5311 SEQUENCE LENGTH:127 SEQUENCE TYPE:nucleic TOPOLOGY:linear | acid | | | | |
| 30 | CLONE:HUMGSO6335 SEQUENCE DESCRIPTION: GATCTCTNCG ANTNAAATTC GTGTCAATAG ATATGAAAGT GAATNNN | | | | TTAAAAAATC | 60 120 127 |
| 35 | SEQ ID NO:5312 SEQUENCE LENGTH:67 SEQUENCE TYPE:nucleic TOPOLOGY:linear | acid | | | | |
| 40 | CLONE:HUMGS06337 SEQUENCE DESCRIPTION: GATCGAGAAT NACNATNTTT ATAGAAA | TĠTAAATGGA | AATACCACTA | CTAAAGACAG | AATGCTATAA | 60 |
| 45 | SEQ ID NO:5313 SEQUENCE LENGTH:130 SEQUENCE TYPE:nucleic TOPOLOGY:linear | acid | | | | |
| 50 | CLONE: HUNGSO6338 SEQUENCE DESCRIPTION: | | | | | |

| | GATCTTCTGT ACTTCTGTCT GGGTTATNAT TGTAGTCTTG AAATTGTAAA | | | | | |
|----|---|------------|------------|------------|------------|-----------|
| 5 | | | | | | |
| 10 | SEQ ID NO:5314 SEQUENCE LENGTH:106 SEQUENCE TYPE:nucleic TOPOLOGY:linear CLONE:HUMGS06339 | acid | | · | | |
| | SEQUENCE DESCRIPTION: GATCTACATN AGGAAAAGTA GTGTTGTATG TCTTTGGGTG | | | | TGAGGGCGGT | 60 106 |
| 15 | | | | | | |
| | SEQ ID NO:5315 SEQUENCE LENGTH:195 SEQUENCE TYPE:nucleic TOPOLOGY:linear | acid | | | | |
| 20 | CLONE:HUMGS06341 SEQUENCE DESCRIPTION: GATCTNAAAA AGAGAGAAGA GGTAAAACAG TAGTAGTAAC | | | | | 60 |
| 25 | GCACATAAAA TAANTATCTT TTTAANATNN NGCTN | | | | TNNTTGTAAA | |
| 30 | SEQ ID NO:5316 SEQUENCE LENGTH:136 SEQUENCE TYPE:nucleic TOPOLOGY:linear CLONE:HUMGSO6343 | acid | | | | |
| 35 | SEQUENCE DESCRIPTION: GATCTAATTA CTTATAGATT TGAGAAATGG GTGAAATGAA TTTTNATGTG AATAAN | | | | AAGATGATTT | |
| 40 | SEQ ID NO:5317 SEQUENCE LENGTH:180 SEQUENCE TYPE:nucleic TOPOLOGY:linear CLONE:HUNGSO6344 | acid | | | | |
| | SEQUENCE DESCRIPTION: GATCAGCTTA AGGNTTTAGC CTGAAAGTAG ATGATTTACC AGGGAGAAGT GGACAGAAGA | TGAGGATAAT | CAGGAACGTT | TTAATAGCCT | TTNCTCTCTA | |
| 50 | SEQ ID NO:5318 | | | | | |

| 5 | SEQUENCE LENGTH:83 SEQUENCE TYPE:nucleic TOPOLOGY:linear CLONE:HUMGS06345 SEQUENCE DESCRIPTION: | acid | | | | |
|----|---|--------------------------|--------------------------|--------------------------|------------|-----------|
| | GATCGCGGTA TATAGAGATA GAATAAAGAG CTCTTTCTT | | TTTACTTGTG | TAAAAATATC | GGACGACGTG | 60 83 |
| 10 | SEQ ID NO:5319 SEQUENCE LENGTH:180 SEQUENCE TYPE:nucleic TOPOLOGY:linear | acid | | | | |
| 15 | CLONE:HUMGS06346 SEQUENCE DESCRIPTION: GATCTCCTTA GGTGATGCAC AGTGGTGGTA GCCCACAGTG | | | | | 60 120 |
| 20 | GCAGTGCCCT AAGACCCACA | CTAAAGAATT | CCGGAAAGTA | GCCCGNGTAC | AACCCGAATN | 180 |
| | SEQ ID NO:5320 SEQUENCE LENGTH:126 SEQUENCE TYPE:nucleic TOPOLOGY:linear | acid | , | | | |
| 25 | CLONE: HUMGSOG347 SEQUENCE DESCRIPTION: GATCAGAGAA TCACAAGAGC TAAAATANCT TTTTGGGNGA | | | | | 60 |
| 30 | ATANTN | CIGANITUAG | INNIANIANA | MCTICAGICI | IICUCIAAIN | 126 |
| 35 | SEQ ID NO:5321 SEQUENCE LENGTH:225 SEQUENCE TYPE:nucleic TOPOLOGY:linear CLONE:HUMGS06348 SEQUENCE DESCRIPTION: | acid | | | | |
| 40 | GATCTAGACG CCCCCAAATC TAAAGGTCCA TGAACCCTGC CCAGTGCCTG ACTTGGGATA CTTTCCCTAA TTCTGCCTTA | CCCACTCCTG GGACTGAGTG | TCAGCCCCTC GTAGGAGGAG | ATCAGCCTTT GGGGAGTGGA | TCAGCAGGTT | |
| 45 | SEQ ID NO:5322 SEQUENCE LENGTH:341 SEQUENCE TYPE:nucleic TOPOLOGY:linear CLONE:HUMGS06350 | acid | | | | |
| | CRONE.RUNUSUUSSU | | | | | |

. 55

| | GATCAGCAAA TTGTTATNTT | AAAAAGTTTT | CTTGTTTAGG | CAATTTGGTA | AGTGGTTTCT | 60 |
|----|------------------------------------|------------|------------|------------|------------|-----|
| | AGTTATAAAC TAGCCACTGT | TGATTAACTT | GAGAAGGTGA | AGCAGGGGAG | TTCTGAAGAG | 120 |
| | ATTACCTAGA GCTACTTAAC | CCTAAGTTAA | GTAAAATTTT | CACTTTCATT | CTTTTCATTC | 180 |
| 5 | TCTCATAAAC TGGTTGAAAA | AACACTGTAC | TACCAACAAA | GGTGTCAGTT | GCTTGTGCTG | 240 |
| | CCCTGTCTAT GTTATGCTCT | GAATAGGTCT | CGGTAAAGAT | TATATGGAAA | TACTATAAAG | 300 |
| | NNTACATAAG GTAAAATACT | AGTCAGANAG | GGTTCAGGTT | N | | 341 |
| | ara ta va zaca | | | | | |
| 10 | SEQ ID NO:5323 SEQUENCE LENGTH:157 | | • | | | |
| | SEQUENCE TYPE:nucleic | aaid | | | | |
| | TOPOLOGY: linear | aciu | | | | |
| | CLONE: HUMGS06351 | | | | | |
| | SEQUENCE DESCRIPTION: | | | | | |
| 15 | GATCTGAAGT NCTTCCATTA | TATCTATATC | TGTATATGNA | CATATATGTG | GGTGTGTATA | 60 |
| | TATATGNGTG TATGTATATA | | | | | |
| | CAATAGTGTT CGCCATGTTT | | * | | | 157 |
| | | | | | | |
| 20 | SEQ ID NO:5324 | | | | | |
| | SEQUENCE LENGTH: 94 | | | | | |
| | SEQUENCE TYPE:nucleic | acid | | | | |
| | TOPOLOGY: linear | | | | | |
| 25 | CLONE: HUMGS06353 | | | | | |
| 20 | SEQUENCE DESCRIPTION: | | | | | |
| | GATCAAGTTT TGATGAAGAT | | | ACTACTCAAG | CTGAACCCCA | 60 |
| | TGCATCAGAG AAATTACACT | TTTATATNTC | CAAA | | | 94 |
| 30 | SEQ ID NO:5325 | | | | | |
| 30 | SEQUENCE LENGTH: 128 | | | | | |
| | SEQUENCE TYPE: nucleic | acid | | | | |
| | TOPOLOGY: linear | | | | | |
| | CLONE: HUMGS06354 | | | | | |
| 35 | SEQUENCE DESCRIPTION: | | | | | |
| | GATCTGCCCT NCTCAGCCTC | CCAAAGTGCT | GGGATTAGAG | GCGTGAGCAC | CATGCCTGGC | 60 |
| | CAGGTCTTNC TAACTAAAAA | ATAATAATA | TAATAATAAT | AAANAAAAGA | NGATACTTGC | 120 |
| | AAAATAAA | | | | | 128 |
| 40 | | | | | | |
| | SEQ ID NO:5326 | | | | | |
| | SEQUENCE LENGTH: 117 | | | | | |
| | SEQUENCE TYPE:nucleic | acid | | | | |
| 45 | TOPOLOGY: linear | | | | | |
| , | CLONE: HUNGSO6355 | | _ | | | |
| | SEQUENCE DESCRIPTION: | | | | | |
| | GATCAAGAGT ATTTNCTNTA | | | | | 60 |
| | ATACATGGCC AAATGCAATA | CTGANGAGAC | AATUATUUTG | TATCTTTNAT | GGTTTTN | 117 |
| 50 | | | | | | |

| | SEQ ID NO:5327 | | | | | |
|----|---------------------------------------|-------------|------------|-------------|------------|-----|
| | SEQUENCE LENGTH: 334 | | • | | | |
| | SEQUENCE TYPE:nucleic | acid | | | | |
| 5 | TOPOLOGY: linear | dura | | | | |
| | CLONE: HUMGS06356 | | | | | |
| | SEQUENCE DESCRIPTION: | | | | | |
| | | 100T0000TT | CTACCCCAAC | 000000000 | 1000001000 | |
| 10 | GATCAATGCG CTAGTGCAGG | | | | | 60 |
| 70 | GCCCCCGAG TACGTGTGGG | | | | | |
| | CTNTAGGTCC GGGGGCGCGG | | | | | |
| | GAAGCGNTCA GCATCCCGGG | | | | | |
| | CAGCAGGGAT GGGGTTGGGG | | | TNTTTCCTTC | CNCAAGNTCC | |
| 15 | ACTAAAATTT CCCTTCTGCN | TTAAAAAAAA | AANN | | | 334 |
| | | | | | • | |
| | SEQ ID NO:5328 | | | | | |
| | SEQUENCE LENGTH: 330 | | | | | |
| | SEQUENCE TYPE:nucleic | acid | | | | |
| 20 | TOPOLOGY: linear | | | | | |
| | CLONE: HUNGS06357 | | | | | |
| | SEQUENCE DESCRIPTION: | | | | | |
| | GATCAGCCAA ATTGGGCGGC | | | | | 60 |
| 25 | TGGTCCCTCT GTCTCCCTGG | | | | | |
| | CCTGACGCAG GGGNATACAG | | | | | |
| | CCTCACCCCT CCTGAGAGGA | | | | | |
| | GAGTCTGCTG TGAACCNCGC | | NCACCTNCNA | TCTNTCCTNC | CAGGGCCATN | |
| | CCTGGGCCAG AGCAGGAGGG | GAGGGAGGTN | | | | 330 |
| 30 | CEO ID NO. 5000 | | | | | |
| | SEQ ID NO:5329 | | | | | |
| | SEQUENCE LENGTH: 175 | | | | | |
| | SEQUENCE TYPE:nucleic | acid | | | | |
| 35 | TOPOLOGY: linear | | | | | |
| •• | CLONE: HUMGS06358 | | | | | |
| | SEQUENCE DESCRIPTION: | | | | | |
| | GATCAAAAAT NTGTGGGTTT | | | | | |
| | TCATGCTGGT ACTATGCTGT | | | | | |
| 40 | GGTGGGATGC CTTCAGCTTT | GINCTITIIN | CTCAAAATAA | AAAATNCTTT | TGAAA | 175 |
| | SEQ ID NO:5330 | | | | | |
| | SEQUENCE LENGTH: 123 | | | | | |
| | | | | | • | |
| 45 | SEQUENCE TYPE:nucleic TOPOLOGY:linear | acid | | | | |
| - | CLONE: HUMGS06359 | | | | | |
| | SEQUENCE DESCRIPTION: | | | | | |
| | | C141477C17C | LOCTCOLLE | TTT L TOTAL | | |
| | GATCAAATCA GAGTAATTTG | | | | | 60 |
| 50 | GGAACATTAT AATTTTCCTC | IGCIVACIVI | ITIVOVVIVI | VIVVIVVIV | AINGICCCCT | |
| | IMMI | | | | | 123 |

| 5 | SEQ ID NO:5331 SEQUENCE LENGTH:161 SEQUENCE TYPE:nucleic TOPOLOGY:linear CLONE:HUMGS06360 SEQUENCE DESCRIPTION: | acid· | | | | |
|----|---|--|--|--|--|-------------------|
| 10 | GATCAAAGCC AGCCACCCCC TGAATCCCAG CCTNGGCCAT TGTAGCAGTG GCAGAATAAA | ANCCTCAACC | TCAGTGGGCT | GGAAATAACA | | |
| 15 | SEQ ID NO:5332 SEQUENCE LENGTH:139 SEQUENCE TYPE:nucleic TOPOLOGY:linear CLONE:HUMGS06361 SEQUENCE DESCRIPTION: | acid | | | | |
| 20 | GATCHTCTCA GNGANGNCGC CTGGGTGCAG GTTCGCAGCC ACCCTGTGGA AAATNAAGN | | | | | 60 120 139 |
| 25 | SEQ ID NO:5333 SEQUENCE LENGTH:145 SEQUENCE TYPE:nucleic TOPOLOGY:linear CLONE:HUMGSO6362 | acid | | | | |
| 30 | SEQUENCE DESCRIPTION: GATCTNCTCA CCCTCGGTGA GGTGCCCTTG GTGAGCTGTG ATAAAAACTA AGTGTGAGCG | TATTTCCTAG | | | | 60 120 145 |
| 35 | SEQ ID NO:5334 SEQUENCE LENGTH:351 SEQUENCE TYPE:nucleic | acid | | | | |
| 40 | TOPOLOGY:linear CLONE:HUMGSO6363 SEQUENCE DESCRIPTION: GATCTTAAAT NACCTATTTC | | CATACACGTT | TTTNACTTAG | TGGTTTAAAA | R O |
| 45 | TATGAAAGTA TATAAACACA TCTGTGTCAT ACCTAATTTT NGGTTTTATT CTTTCAATGA TGTGGTCAAT AGTTATTGGT TAGCTTAGTG GTCAGTTGTT | TTACCAAACA TTTAAAGCTA ACACTGTATC AATACTACTA | CTTTGGGGTA TAATGAACTG AAAATTTTTT GTAATATGGG | GGAGAAGTAC ATACACATCA NATGANGTAA TNCATGGCTA | GCTTAGCATG ATTTANNNCG TGTTAGTCTT TAAGATGCTT | 120 180 240 |

SEQ ID NO:5335

| | SEQUENCE LENGTH: 348 | |
|----|--|----|
| | SEQUENCE TYPE:nucleic acid | |
| 5 | TOPOLOGY:linear | |
| 3 | CLONE: HUMGS06364 | |
| | SEQUENCE DESCRIPTION: | |
| | GATCACAAGT AGAGAACTTG TTTCTTTTCA CCCCTCTTGC TCCTCCCCGG AGTTATGAAA AATTTCAAAC CTGCCAAAAG TTTGAAGTTT ACAACAAATA CCCTCCAACG TTTGGNTTGC 1 | |
| | CTCCCTCCCC CTTCTCTCCC TTNCTCCCTC TGATTTCTTA CAGAACCACG CTTTCATGAC 1 | |
| 10 | CATGCCCGGG AACTTCACGC TGGCGCGGTG AGGTCCTGCG CCTCCGNTTN CNGCACACAC 2 | |
| | GTGCTTCTNA ATAGCTGCAG GCTATTTCAT GAGAGGAATT TGCTCACGTT AACATNGCTG 3 | |
| | TTCCCALLTC COACCOTONT TOTAL COCCOT TOTAL COCC | 48 |
| 45 | CEO IN NO. COOC | |
| 15 | SEQ ID NO:5336 SEQUENCE LENGTH:220 | |
| | SEQUENCE TYPE: nucleic acid | |
| | TOPOLOGY: linear | |
| | CLONE: HUMGS06365 | |
| 20 | SEQUENCE DESCRIPTION: | |
| , | CATCTCLATA CTCACTTACT CATCCTCCTC ALCCCTATCT CACCATTCT | •• |
| | ATACCTCGGC ATGGCCGCGT CACTGCTCTG ATTATGTGCC CTGGCCAGGG ACCAGGGCCC 12 | 60 |
| | TTGCACANGG GCATGGTTGA NTCTGAAACC CTCCTTCTGT GGCAACTNGT ACTGAAAATC 18 | |
| 25 | TECTECTELY TANALANCES COMPANY TO THE TOTAL | 20 |
| | SEC ID NO. 5227 | |
| | SEQ ID NO:5337 SEQUENCE LENGTH:227 | |
| | SEQUENCE TYPE: nucleic acid | |
| 30 | TOPOLOGY: linear | |
| | CLONE: HUMGSO6366 | |
| | SEQUENCE DESCRIPTION: | |
| | CATCCACCO ATALLETACO MOCATOLA CALCONOMIA | 60 |
| 25 | AGAATTACTT ATTTCTTTNC TATATTCTCA TAGCACGTGT NTGATTGGTT CATGCATGTA 12 | |
| 35 | GGTCTCTTAA CAATGATGGT GGGCCTCTGG AGTCCAGGGG CTGGCCGGTT GTTCTATGCA 18 | |
| | GAGAAAGCAG TCAATAAATN TTTGCCAGAC TGGGTGCAGA ATTTAAA 22 | |
| | SEQ ID NO:5338 | |
| 40 | SEQUENCE LENGTH: 91 | |
| | SEQUENCE TYPE: nucleic acid | |
| | TOPOLOGY: linear | |
| | CLONE: HUMGS06367 | |
| 45 | SEQUENCE DESCRIPTION: | |
| | GATCITNACT CITGITTCCT TIGICCITTI NITCAGACAG AGITGIACCI GCAGCAGACA 6 | 0 |
| | ACRORAL LORD ALLOS AND ALL | 1 |
| | SEQ ID NO:5339 | |
| 50 | SEQUENCE LENGTH: 269 | |

| 5 | SEQUENCE TYPE:nucleic acid TOPOLOGY:linear CLONE:HUMGS06369 SEQUENCE DESCRIPTION: |
|----|---|
| | GATCTCTCCC CACACAGAGG CCAGCAGACC TCTTCCTGAG GACTTCTGTT TAAAGGAGGA 60 CGAGGAGGAG GTTGGTGACA GTCAGGCCTG GGAGGAGCCC ACAAACTGGA GCACAGAGAC 120 |
| 10 | ATGGAACCTA GCTACTTCCT GGNAGGTGGG GCGGGNACTA CGGAGAAGGT GCAGCCAGGC 180 TGTGGCAAAG GGCCCCANTC ACAGCCTTGG CTGGGAAGGN GGGNNCGACA GCTGANGGTC 240 |
| | GACTAAAACA AAGTCTGTTT TCATGNAAA 269 |
| | SEQ ID NO:5340 SEQUENCE LENGTH:67 |
| 15 | SEQUENCE TYPE: nucleic acid |
| | TOPOLOGY: linear |
| | CLONE:HUMGS06370 SEQUENCE DESCRIPTION: |
| 20 | GATCTCTTGT NATGGGGCCA ATAAGTCAAT TGAATTCATG GGCCAAACAG TTCCCATTCT 60 |
| 20 | CTTCAAA 67 |
| | SEQ ID NO:5341 |
| | SEQUENCE LENGTH: 313 |
| 25 | SEQUENCE TYPE:nucleic acid |
| | TOPOLOGY:linear CLONE:HUNGSO6371 |
| | SEQUENCE DESCRIPTION: |
| | GATCCTNATN ACGNAGCTGA TGCCTGCCTT GGTNCCTACC ACTCTGGTGT AGACAGAGGA 60 |
| 30 | CTTTNTCCAA GTGTCACACT AAACATGCCC GGGCTTCGAT GTGCCTGGAG GATTTCCCCA 120 |
| | CAGGGACCCA CGCACCTCCC TGTATCTGCG CAGTTGCTCG TGTGGCTGGA AGCGCTGTCG 180 |
| | ATAAGCTTCN NGGCGCTGGN TTGCCAGTTC TTCAGCTCTA GGACTTGTAG CTTTAAGCAA 240 |
| | ACCOTCTCC ATCCCTTCA NCTNTCCCCA CCTCCCACNC NTCTCCACCC TCTTCCCTTA 300 |
| 35 | NNAAAGCTGG CTN 313 |
| | SEQ ID NO:5342 |
| | SEQUENCE LENGTH: 87 |
| | SEQUENCE TYPE:nucleic acid |
| 40 | TOPOLOGY: linear |
| | CLONE: HUNGS06372 |
| | SEQUENCE DESCRIPTION: |
| | GATCAAAAAA TATATGAAAG TTCCTTGTAG ATACATATCT ATAGATATAT ATGTNTATGT 60 |
| 45 | ATATAAAGAT AGATATATAC ATTGAAA 87 |
| | SEQ ID NO:5343 |
| | SEQUENCE LENGTH: 125 |
| | SEQUENCE TYPE:nucleic acid |
| 50 | TOPOLOGY: linear |

| 5 | CLONE:HUMGS06373 SEQUENCE DESCRIPTION: GATCTTTTTA TATTCTTCTA TAATGGGAAT NTNTATAAAG AGAAA | | | | | |
|----|---|---------------------------------------|--|--------------------------|--------------------------|--------------|
| 10 | SEQ ID NO:5344 SEQUENCE LENGTH:51 SEQUENCE TYPE:nucleic TOPOLOGY:linear CLONE:HUMGS06374 | acid | | | | |
| 15 | SEQUENCE DESCRIPTION: GATCAGGTGG AAATGTTTAA | GCTAAATAAA | TCTAGGGGTT | NTTTNAACAA | A | 51 |
| 20 | SEQ ID NO:5345 SEQUENCE LENGTH:273 SEQUENCE TYPE:nucleic TOPOLOGY:linear CLONE:HUMGS06376 | acid | | | | |
| 25 | SEQUENCE DESCRIPTION: GATCTGAAGA AACAACGCAG GCCTTCTCAG TCAGCTAACT CAAGAGATTT TTCAATCAAG ATNGAATGAG TAAATTAAGC AAACATTCCT GTATTATANT | TTCCTGAGTT NCTTTGGAAC AACTTTTAN | CTCCTTTGAC TACGAAGATG TATCCTATTT | TTCACTAGGG GAAGAGATTT | AACAGTTGAA GAAGAGGGAT | 120 180 |
| 30 | SEQ ID NO:5346 SEQUENCE LENGTH:76 SEQUENCE TYPE:nucleic TOPOLOGY:linear | | | | | * |
| 35 | CLONE:HUMGS06377 SEQUENCE DESCRIPTION: GATCTAGATA TITTCCTCTT TAGCATTCCT NGTAAA | TTTCTGAAGN | TACTTTCTTA | AAAATAAAT | AAAATGTTTA | 60 76 |
| 40 | SEQ ID NO:5347 SEQUENCE LENGTH:295 SEQUENCE TYPE:nucleic TOPOLOGY:linear | acid | | | | |
| 45 | CLONE: HUMGS06378 SEQUENCE DESCRIPTION: GATCAATTCT CCTTTGCGAG | | | | | 60 |
| 50 | CGTGTTCATG ACCGAGAACT GAGCTGGCCG NGCATTCGTG TCCTGACGTC TTTATNGGTA | CGTGTTCATG | ACCGNGAACT | TTTCACAGCT | AGGACTNCTG | 180 |
| | VIDENTILL STRUCTOR | TUVIVATION | ATTIVVAU/CT | COVENCTION | TIMINITIUM | 4 T V |

| | TCTCTTTATT GTAACACTCT | GTGCANNNTT | TGATTNCTAG | TTTATTTNCA | TTGTN | 295 |
|----|--|--------------------------|--------------------------|--------------------------|--------------------------|------------|
| 5 | SEQ ID NO:5348 SEQUENCE LENGTH:416 SEQUENCE TYPE:nucleic TOPOLOGY:linear | acid | | · | | , |
| 10 | CLONE: HUMGS06379 SEQUENCE DESCRIPTION: GATCGACCTG AGCACAGTGG | | | | | |
| | GGATGACTNN NNGGAGACAT AAATNAACTG ATNCCTAAAT TGCTCAATCT CTGTTGCACC | ATGNCCCCAA TGAGGGGGTA | GGCAGCCAGT AAAACAGTTC | GCACGGACCG AACTGCTTAC | ATTTGTAGTC TCCCAAANCA | 180 240 |
| 15 | GCCTNTTTGT AATTTATTTT TGGAGCTTTC CTGGATGATG CTGTTTGCTG GTGTACTNCT | CTGGNCCTGC | AGTACCCCCA | TGAGGGGATT | NCCNTTCCTT | |
| 20 | SEQ ID NO:5349 SEQUENCE LENGTH:88 SEQUENCE TYPE:nucleic | acid | | | | |
| 25 | TOPOLOGY:linear CLONE:HUMGSO6380 SEQUENCE DESCRIPTION: GATCTGAAGA AGTGGTTAAG TTTTTGAAGA AGTGATGAGA | | TATGTACCTT | TTTAAACAAA | GATTAATAAA | 60 |
| 30 | SEQ ID NO:5350 SEQUENCE LENGTH:259 | CARAGAAA | | | | |
| 35 | SEQUENCE TYPE:nucleic TOPOLOGY:linear CLONE:HUMGSO6381 SEQUENCE DESCRIPTION: | acid | | | | |
| | GATCAGAACA TGAACTTTTT AAATNATGTT TTCTGTGTAA TCAGTTCGGC CCACTGCACC | AGCGAGATAC ANCACTGTCG | ATATTNCTNA TATCCTTGTT | TAATGCAGCA AAAATGGTGT | TTGTGAGAAG GTACCTTACA | 120 180 |
| 40 | ANTTATAATT TATGTGCCAG ANCCCCTGTN NNCTNGGTN | GTTCGTTTTG | TNCTTAATTT | GCTATTATTG | TGCTGTGTNT | 240 259 |
| 45 | SEQ ID NO:5351 SEQUENCE LENGTH:65 SEQUENCE TYPE:nucleic TOPOLOGY:linear CLONE:HUMGS06382 SEQUENCE DESCRIPTION: | | | | | |
| 50 | GATCTTATAA AGTACTTGTO | TGGAGCTTTG | ATTCCACAGA | ATAAAAGATA | TTTTGTGTGT | 60 65 |

| 5 | SEQ ID NO:5352 SEQUENCE LENGTH:226 SEQUENCE TYPE:nucleic TOPOLOGY:linear CLONE:HUMGS06383 SEQUENCE DESCRIPTION: | acid | | | | |
|----|---|--|--|---|--|-------------------|
| 10 | GATCTCAGCC CAGGACAAGG CCAGTAAGAA GGGCAAAGTC GGAAGAATTN CCTGGCAAAA GTTGTGAGGG TAGATGGGAA | CAAGGGGAGG GCCATTGGAG | GATGAGGNAG CTTGTNTGTG | GGGCCAGATG TGTCTTTGGT | GGGTCCTGGA | |
| 15 | SEQ ID NO:5353 SEQUENCE LENGTH:305 SEQUENCE TYPE:nucleic TOPOLOGY:linear CLONE:HUMGS06384 | acid | | | | |
| 20 | SEQUENCE DESCRIPTION: GATCCTTTTG TAAGGNCCTT TTGCCCGACG TGTATGGTGT CACCTGTACT CTTCCACTCA TTCATCCCCT CGGNCTACCC | ATTCCAGTTT GGTATCCGTG | AAAGTGGATT CGGCCACTCC | ACAACCGGCT AGCACACGCA | AGGCTACACA GTATGAGCGC | 180 |
| 25 | TTCATCTNTC AGCATCGGGC TTNGN | • | | | | |
| 30 | SEQ ID NO:5354 SEQUENCE LENGTH:356 SEQUENCE TYPE:nucleic TOPOLOGY:linear CLONE:HUMGS06385 | acid | | | | |
| 35 | SEQUENCE DESCRIPTION: GATCTACATT CTTCAAAAAA CTGCCATTTG TATTGGGCTG TCCCNCTTTT CATAAATNCT GATTACAATG CTTTTATCGT GTTAAANCAT GATTTTGCAG | AAGAANTCAC CTTGGNCATN TTCAGGCTTC ANCCTTTGGT | TATTGTGTAT ATTGGGCTTG ATTTNNGCTT TTTGGACAGT | ATACTCAAGT CAGAGTTCCC CAAANCAAGC TTCATTTTT | CTTTTNATTT TTATNCTGGG TGGGCACACT NGGATTTGGG | 180 240 300 |
| 40 | SEQ ID NO:5355 SEQUENCE LENGTH:74 | UAGIATGCTG | IAAAIAAAA | INCANGUIAG | IUCIIN | 356 |
| 45 | SEQUENCE TYPE:nucleic TOPOLOGY:linear CLONE:HUMGS06386 | acid | | | | |
| | SEQUENCE DESCRIPTION: GATCTTTAAC AGCTCCTTTA | | | | | 60 |

| | TCTACCTTTG TAAA | | | | | 74 |
|-------------|--|--|---|--|--|--------------------------|
| 5 | SEQ ID NO:5356 SEQUENCE LENGTH:201 SEQUENCE TYPE:nucleic TOPOLOGY:linear | acid | | | | |
| 10 | CLONE: HUMGSO6387 SEQUENCE DESCRIPTION: GATCCTGCTG GCCGAGCTCG GAATAAGNTC CTTAACTTAA | | | | | |
| 15 | TGTTTCTATA TTTNATAACA CTGTATGAGG ACTTNCCTGA | | ATNTNATNTA | TAAGCCATGG | TCTACTGATA | 180 201 |
| 20 | SEQ ID NO:5357 SEQUENCE LENGTH:409 SEQUENCE TYPE:nucleic TOPOLOGY:linear CLONE:HUHGS06388 SEQUENCE DESCRIPTION: | acid | | | | |
| 25 | GATCAGAACG TTAACATATG AATAACTCTA GTTCTCTCT TGGAGCTGCA GACAGAAATC TGTTAGGAAT GGAAATAAAC TTGCTAATNG GGAGCTGCAG AAAGNTATAA GAGCTTAAGG | ATGAGCATTT TACAAAGNCN TTGTGAAGTC CAGTTTGTGT CAAGAAAGGA | CCTAAAAGCC NAAGTAAACA TGTTTATTT TTACTCCAGT ATACCATGGG | ATCTGATTTG AAATTAAGTT GAAGTATTGG TCATCAGCTT ATTCTATTTN | GCATTCTTAC ATTATTCCAC TGAACTAGGC AGGTCATTTG | 180 240 300 360 |
| 30 | GNCCATTCTT GGNAAGCAGC SEQ ID NO:5358 | TCCNGTTTGG | TTTTCCAGCT | GTCAAACTN | | 409 |
| 35 | SEQUENCE LENGTH: 175 SEQUENCE TYPE: nucleic TOPOLOGY: linear CLONE: HUMGS06389 SEQUENCE DESCRIPTION: | acid | | | | |
| 40 | GATCTGCCCG THTCGGCCTC CCGACAAAGG CTTTGATATC TGTGCAGAGN CCAANNGGTA | AGAATGAACT | GTCAAGGGAG | GTGCTGGAGA | GGGATTAACC | |
| 45 , | SEQ ID NO:5359 SEQUENCE LENGTH:104 SEQUENCE TYPE:nucleic TOPOLOGY:linear CLONE:HUMGS06390 SEQUENCE DESCRIPTION: | acid | | | | |
| 50 | GATCAGGCTC AGGCGGCCCC | | | | CGGGTGTGAG | 60 104 |

| 5 | SEQ ID NO:5360 SEQUENCE LENGTH:106 SEQUENCE TYPE:nucleic TOPOLOGY:linear CLONE:HUMGS06392 SEQUENCE DESCRIPTION: GATCTTTCCC AAGAGAAGGG AGACTATTTG CTTATTTAAT | GAAGCACTCG | | | GTATCTGTGT | 60 106 |
|----|---|------------|------------|------------|------------|-----------|
| | SEQ ID NO:5361 | | | , | | |
| 15 | SEQUENCE LENGTH:382 SEQUENCE TYPE:nucleic TOPOLOGY:linear | acid | | | | |
| | CLONE: HUMGSO6393 SEQUENCE DESCRIPTION: | | | • • | | |
| | GATCTACGCT GCCTTCAAGG | AAGTGCTGGG | TTCGGGCATG | CACCACCACC | TCCAGAACAA | 60 |
| | TGAGCTACTC CGTGACATCT | | • | | | |
| 20 | GAAGGCCTGC AAGGTTCCAC | | | | | |
| | CCGGACCAAG GCTCGAAGCC | GTGTGCGGGA | CAAGCGGGCA | GACATCCTGT | GAAGCAGGAC | 240 |
| | CTGCTGAAGA GGAGACTTTC | TATGCCCTTG | GTCCGTATTT | TTAACAGAAG | ACAGTGCAAC | 300 |
| | AACTGGTCTT CACCAGTATT | TGTCACTTTA | TTTTTTTAA | TGTCAAAACC | AAAAACAGAC | 360 |
| 25 | ATGGGGTTGG GTAGCTGGGG | GN | | | | 382 |
| | 474 ID NO 5044 | | | | | |
| | SEQ ID NO:5362 | | | | | |
| | SEQUENCE LENGTH: 354 SEQUENCE TYPE: nucleic | | | | | |
| 30 | TOPOLOGY: linear | aciu | | | | |
| , | CLONE: HUMGS06394 | | | | | |
| | SEQUENCE DESCRIPTION: | | | | | |
| | GATCCNATCA TTCCTTAAAC | ATANTACCCT | TNGTCTTGGA | GTAGAATACT | AAGTTAGAGT | 60 |
| | TAGTGGATTT CTAGTTTAGG | AGAGGAGCTC | AAAACTATAA | TCTNTAACAA | ATTGAAAAAT | 120 |
| 35 | GAAATAGGGT GTTTTCCCTT | TTTGTGCACA | CCTACATNAC | CTTAAGAAAT | NNCCTTCCAT | 180 |
| | AGACAGCTGC CTCAAAGGGA | | | | | |
| | GTCGGAGCTT AGGAGGTGCG | | | | | |
| | GTGGCANCAN NTTTNGCTCA | TGNGTCAAAA | ATTTNGGCAA | TTTCTTTTGG | ATTN | 354 |
| 40 | 0PA ID NO. 5202 | | | | | |
| | SEQ ID NO:5363 SEQUENCE LENGTH:79 | | | | | |
| | SEQUENCE TYPE:nucleic | acid | | | | |
| | TOPOLOGY: linear | 001 W | | | | |
| 45 | CLONE: HUMGS06395 | | | | | |
| | SEQUENCE DESCRIPTION: | | | | | |
| | GATCCAGGGC CTCCCCGCCT AAAGTAGGAA ATATTCAAA | TCCTTCTTCC | TTTTTATATA | CAATTTGTTA | TTGTCAAATA | 60 79 |

| | SEQ ID NO:5364 SEQUENCE LENGTH:238 | | | | | |
|----|---------------------------------------|--------------|------------|------------|------------|-----|
| | SEQUENCE TYPE:nucleio | acid | | | | |
| 5 | TOPOLOGY: linear | | | | | |
| | CLONE: HUMGS06396 | | | | | |
| | SEQUENCE DESCRIPTION | | | | | |
| | GATCTTTGTG GCCAAGGAGG | TGCTATAGCC | TGGGGTGGGG | TCATGCCCTC | CTCTCCCATT | 60 |
| 10 | GTCCCTCTNC CCCATCCTC | AGCAGGGAAA | ATGCAGCAGG | GATGCCCTGG | AGGTGGCTGA | 120 |
| | GCCCCTGTCT AGAGAGGGAG | GCAAGCCCTG | TTGACACAGG | TCTTTCCTAA | GGCTGCAAGG | 180 |
| | TTTAGGCTGG TGGCCCAGGA | CCATCATCCT | ACTGTAATAA | AGATGATTGT | NAAATAAA | 238 |
| | SEQ ID NO:5365 | | | | | |
| 15 | SEQUENCE LENGTH: 321 | | | | | |
| | SEQUENCE TYPE:nucleio | acid | | • | | |
| | TOPOLOGY: linear | | | | | |
| | CLONE: HUNGS06397 | | | | | |
| 0. | SEQUENCE DESCRIPTION: | | | | | |
| 20 | GATCCTTGTC CGTGGCAACO | | GCTGCAGTGC | TGATGTATTT | ATAGGCTTAG | 60 |
| | CATGICIGCT TTATTAGTTA | | | | | 120 |
| | CATCANGGAA TGAATGCTAA | ATNAGCCCAT | TTAGCAGCCT | GAAATCAAAT | NCTGCATTIN | 180 |
| | TTTTTTNAAA CTCTTGGTAG | | | | | |
| 25 | ACTAAAGGGT TANCTNCTCA | | | | | |
| | AGGCTTTTGA TGNGAANTA | A | | | | 321 |
| | SEO ID NO.5266 | | | | | |
| | SEQ ID NO:5366 SEQUENCE LENGTH:409 | | | | | |
| 30 | SEQUENCE TYPE:nucleio | anid. | | | | |
| | TOPOLOGY: linear | aciu | | | | |
| | CLONE: HUMGS06398 | | | | | |
| | SEQUENCE DESCRIPTION | | | | | |
| 35 | GATCTACAAG TCAGTGCCC | | CAGGTGCACT | GCTATAACAG | CAACTTCCCA | 60 |
| 33 | AAAGGCATGT TACTTCGCT | | | | | |
| | GCTTTCTTGG CTTGGAAAG | | | | | |
| | TTCCAGGTGA ATCAGTGGG | - | = | | | |
| | NGAAGCTGAC TAAAGAACC | | | | | |
| 40 | ATGTAACTGC ATTTGACCT | | | | | |
| | TATTINAAAG CAGANGCAC | | | | | 409 |
| | SEQ ID NO:5367 | | | | | |
| | SEQUENCE LENGTH: 178 | | | | | |
| 45 | SEQUENCE TYPE: nuclei | · anid | | | | |
| | TOPOLOGY: linear | aciu | | | | |
| | CLONE: HUMGS06399 | | | | | |
| | SEQUENCE DESCRIPTION | | | | | • |
| | Andrewan andomit 1704 | • | | | | |

| | GATCCTCAGT ATAGCCGGTG | | | | | |
|----|---|------------|---|---------------|------------|------------|
| | CTTCCAGCCA TCTNATCGCC CACAGCCCNA GAAGNGTCCC | | | | | 120 178 |
| 5 | | | | | | |
| | SEQ ID NO:5368 | | | | | |
| | SEQUENCE LENGTH: 75 | . | | | | |
| | SEQUENCE TYPE:nucleic TOPOLOGY:linear | acid | | | | |
| 10 | CLONE: HUMGS06400 | | | | | |
| | SEQUENCE DESCRIPTION: | | | | | |
| | GATCATTGTA ATATATTTAN | TTGTATATNA | AGCATGACTA | CTTTAAGTNT | TAAATAAACT | 60 |
| | GCAATAATCC TTAAA | | | | | · 75 |
| 15 | ARA ID NA CACA | | | | | |
| | SEQ ID NO:5369 SEQUENCE LENGTH:354 | | | | | |
| | SEQUENCE TYPE:nucleic | acid | | | | |
| | TOPOLOGY: linear | acra | | | | |
| 20 | CLONE: HUMGS06401 | | | | | |
| | SEQUENCE DESCRIPTION: | | | | | |
| | GATCAGTGNC TGGCACCAGA | | | | | 60 |
| | ATCATCATTT GCTTCAAGCC | | | | | |
| 25 | AAACTAGAGG AGGTGCTCTC AAGAAGGCCA AGCGAGACTA | | | | | |
| | GCCCTCCGGA CCTGAGACTA | | | | | |
| | GGTGTGCAGG GGGAGCTGGG | | | | | 354 |
| | | | | • | | |
| 30 | SEQ ID NO:5370 | | | | | |
| | SEQUENCE LENGTH: 93 | • • | | | | |
| | SEQUENCE TYPE:nucleic TOPOLOGY:linear | acid | | | | |
| | CLONE: HUMGS06402 | | | | | - |
| 35 | SEQUENCE DESCRIPTION: | | | | | |
| | GATCACTGGA ATGTGGGGAT | TCTGAAACAG | AAATGAAACT | GTCCTTTTGA | CAACTCTCTT | 60 |
| | ATATAATAAA GTATCACCGG | CTTGTGTATG | AAA | | | 93 |
| 40 | SEQ ID NO:5371 | | | | | |
| | SEQUENCE LENGTH: 80 | | | | | |
| | SEQUENCE TYPE:nucleic | acid | | | | |
| | TOPOLOGY: linear | | | | | |
| 45 | CLONE: HUNGS06403 | | | | | |
| - | SEQUENCE DESCRIPTION: | 1000111C1 | 1 ~~~ 1 ~ 1 ~ 1 ~ 1 | ATCT 1 CC 4 | CCACALAATA | eΩ |
| | GATCATGCAT TATCTTTATA AAAAAATTA TAATCTTAAA | | VITIVIVIVI | VARAVIATOR | AIAAAADAUD | 60 80 |
| | ANADARITA INNICITARA | | | | | |
| 50 | SEQ ID NO:5372 | | | | | |

| 5 | SEQUENCE LENGTH: 292 SEQUENCE TYPE: nucleic TOPOLOGY: linear CLONE: HUMGS06404 | acid | | • | | |
|----|---|--------------------------|--------------------------|-----------------------|--------------------------|------------|
| 10 | SEQUENCE DESCRIPTION: GATCATNTTG ATAATGCTCG CGTTCCCTTC ACGGAGAAAG GCAAGTCAGC TACAACTGTT TTTCTGNCAA GTTCGGCTCA | ATTTTAAGAA TCATCGCTGC | TGGCCCCCAG AGGCCTTTAC | AACATATACA CTCCTCCTCG | ACCTTTACGA GAGGCTTCTN | 120 180 |
| | GTTTCCCCGN TCCAGCCNCT | TCTCTATTTA | ANGACTGCNN | GCACCGTGTC | AN | 292 |
| 15 | SEQ ID NO:5373 SEQUENCE LENGTH:194 SEQUENCE TYPE:nucleic TOPOLOGY:linear | acid | | . • • | | |
| 20 | CLONE: HUMGS06405 SEQUENCE DESCRIPTION: GATCCTNCTG GCCGAGCTCG CTACGAGGAG NAGATGCGGG CGCNTCGAGG TGGAGCGCGA CAGGNNGGAG ATTN | ACTGCGCCGG | NAGGTGGACC | AGCTAACCAA | CGACAAAGCC | |
| 25 | SEQ ID NO:5374 SEQUENCE LENGTH:72 SEQUENCE TYPE:Ducleic | acid | | | | |
| 30 | TOPOLOGY:linear CLONE:HUMGSO6407 SEQUENCE DESCRIPTION: GATCCTGGAT TCACTCACTC TGACCATGTA AA | ACTCATTCCT | TCACTCATCC | AGCCACCTAA | AAACATTTAC | 60 72 |
| 35 | SEQ ID NO:5375 SEQUENCE LENGTH:219 SEQUENCE TYPE:nucleic | acid | | | | |
| 40 | TOPOLOGY:linear CLONE:HUMGSO6408 SEQUENCE DESCRIPTION: GATCACGCAC GAAGTGTACG | 1107010001 | CATTA #CCCC | CACCTCTCCC | | 60 |
| | GTTGCCGCGG ACCGAGGACC CCAGTNACAC AGTGCGCGGG | ACCCGTGCCA | AAAGTGCGGC | CACAAGGAGG | CTGTGTTCTT | |
| 45 | ACANTGNGGC CACCGCTGGA | CCGAGTGNCC | TNCTNTGTN | | | 219 |
| | SEQ ID NO:5376 | | | | | |
| | SEQUENCE LENGTH: 65 | | | | | • |
| 50 | SEQUENCE TYPE:nucleic | acld | | | | |

| 5 | TOPOLOGY:linear CLONE:HUMGSO6409 SEQUENCE DESCRIPTION: GATCCAACAA GAACATTTCC ACAAA | AAAAGTATCT | AGGTGTTCTC | AAATAAAAG | CTTTCTTTGC | 60 65 |
|-----|---|--------------------------|------------|------------|------------|----------|
| 10 | SEQ ID NO:5377 SEQUENCE LENGTH:97 SEQUENCE TYPE:nucleic TOPOLOGY:linear CLONE:HUMGSO6410 | acid | | | | |
| 15 | SEQUENCE DESCRIPTION: GATCTGCTAA TGCTTTTTAG CAAAATCCAA TAAAACAAGG | | | ACATGGTTCN | TGTTTTTACT | 60 97 |
| 20 | SEQ ID NO:5378 SEQUENCE LENGTH:206 SEQUENCE TYPE:nucleic TOPOLOGY:linear CLONE:HUMGS06411 | | | | | |
| 25 | SEQUENCE DESCRIPTION: GATCCCAGAG AGCANCTTCA CATGAGTCTT TGCCGGAGGA CTGGAATAGG CAAGGNATAA GTCANCCTTG TTTCTACTGT | AAAGCAGCTC CTCTTCTAAC | AAGAACACAT | GTGCANTCAC | TGGTGTCACC | 120 |
| 30 | SEQ ID NO:5379 SEQUENCE LENGTH:84 SEQUENCE TYPE:pucleic | acid | | | | |
| 35 | TOPOLOGY:linear CLONE:HUMGS06412 SEQUENCE DESCRIPTION: GATCACTTAA ATGATTTTNT TGTAATTAAA TGCCTTTTC | GGTGATTCGT | GCCATTGCTT | TTTTATTTAA | AAGAAAATTT | 60 84 |
| 40 | SEQ ID NO:5380 SEQUENCE LENGTH:127 | | | | | |
| de. | SEQUENCE TYPE:nucleic TOPOLOGY:linear CLONE:HUMGS06413 | acid | | | | |
| 45 | SEQUENCE DESCRIPTION: GATCACACCA GAGTACATGT TGAATAANTC ACTGCCATAC CCCCAAA | | | | | |

| 5 | SEQ ID NO:5381 SEQUENCE LENGTH:229 SEQUENCE TYPE:nucleic TOPOLOGY:linear CLONE:HUMGS06414 | acid | | | | |
|----|---|--------------------------|--------------------------|--------------------------|--------------------------|----------|
| 10 | SEQUENCE DESCRIPTION: GATCAAAAAT GCAACTGAGA CCTAACCATT GAACTCCAAA TTCCAGGATA GAAAAAGGTC CCTTCGAGAT GAAGAAATGC | AGGAAGTCAG TGCCACTCAA | GGAGAAAGAA TAAGGAAATT | GACTTCATCT GAGAAAGANT | TCACTTGCAA | 120 |
| 15 | SEQ ID NO:5382 SEQUENCE LENGTH:71 SEQUENCE TYPE:nucleic TOPOLOGY:linear | acid | | | | |
| 20 | CLONE:HUMGS06415 SEQUENCE DESCRIPTION: GATCCCTAAC TGTTCCCTTA CTTTTTGTAA A | TCTGTTTTCT | ACCTCCTCCT | TTGTTTAATA | AAGGCTGAAG | 60 71 |
| 25 | SEQ ID NO:5383 SEQUENCE LENGTH:235 SEQUENCE TYPE:nucleic TOPOLOGY:linear | acid | | | | |
| 30 | CLONE:HUMGS06416 SEQUENCE DESCRIPTION: GATCACTTAC AAATTTTTG AGATGTGTG GTGAGAGTAT ACGTCTTGAG CAGTCAGCAT | GTATGTGTGT | GTGTGTGTGT | GTGTGTGTGC | GCGTGCACGC | 120 |
| 35 | TCCTCATNNN NGNTTTGCTT | TCAGTTGGTT | TTCAATTTNC | TCACTGGCCA | GAGAN | 235 |
| | SEQ ID NO:5384 SEQUENCE LENGTH:236 | | | | | |
| 40 | SEQUENCE TYPE:nucleic TOPOLOGY:linear CLONE:HUMGSO6417 SEQUENCE DESCRIPTION: | acid | | | | |
| 45 | GATCTTCCCT CTTCTGAACA GCGGCCTTCA CCCCTAAGTG TGGACGACTT CTGAAAACTG AAATCAGCAC TTTCCCTTGG | AAAATGTTAG GAGGACGAGC | TGAACTAAAG ATGGGAGCAA | GAAGGAGCCA GGCCAGGACC | TTCTTGGAAC ATGACAAGGA | 120 |
| 50 | SEQ ID NO:5385 SEQUENCE LENGTH:135 SEQUENCE TYPE:nucleic | acid | | | | |

| 5 | TOPOLOGY:linear CLONE:HUMGSO6418 SEQUENCE DESCRIPTION: GATCCAGTAC TTGGCAGCCA TTAACAACAA AACCTTTTAG ATTCCAGAGC ATCAN | | | | | |
|----|---|--|--|--|--|-------------------|
| 10 | SEQ ID NO:5386 SEQUENCE LENGTH:261 SEQUENCE TYPE:nucleic TOPOLOGY:linear | acid | | | | |
| 15 | CLONE: HUMGSO6419 SEQUENCE DESCRIPTION: GATCAGCTCG CACAGAGGTT CTGATGGACC TGGGCCCAAT | | | | | 60 120 |
| 20 | ANTCAAGGGA ACACTGACCA CCCTCAATTT CCACAATTCA TTTGCTGCTG TCTCCAAANA | TCTTCAAGAG CTTGAATGAC | TCCCGTTCCC | TTGCCACCCC | TTCACGTGCA | 180 |
| 25 | SEQ ID NO:5387 SEQUENCE LENGTH:300 SEQUENCE TYPE:nucleic TOPOLOGY:linear CLONE:HUMGS06420 | acid · | | | | |
| 30 | SEQUENCE DESCRIPTION: GATCATAGAC ATGATTATAT ATTCCAATAT TATAATAATC AGAGATAGGA GCCGAGGGGN TCTTATGCCT GGACAGGGCC AGATGCCTGT TGCAAAGTGG | CNCACTCTAC CATAGTGCGA ACCAGAGGGC | AATCATAACC AGTGGCCAGA TTGGTCTAGC | TAGGAAAAAC AGACAAGAGT AGTAACACCA | CAGGCCATAC GTGAGCCTTC GTGTCTGGGA | 180 240 |
| 35 | SEQ ID NO:5388 SEQUENCE LENGTH:299 SEQUENCE TYPE:nucleic | | | | | |
| 40 | TOPOLOGY:linear CLONE:HUMGS06421 SEQUENCE DESCRIPTION: GATCAACAGT GGCAATGGAG | CTCTCCACCA | CAGAAAGCCA | AGTGGACTCA | ACGGAGAGGC | 60 |
| 45 | CAGCAAGTCT CAGGAAATGG GTTTATGNCA GCTGATGAGA ACACCTACAC CATTATCTTG TGGGACACTT AACAGATGCA | TGCATTTGGT CAAGGAACCT GAAAGAAACA | GAACAAGGAG GCAGAATGTG ACCGTTGGAA | TCGTCAGAAA GACATGAAGA ACATAACCAT | CTCCAGACCA TTGGGGTGTA TACAGGGAGC | 120 180 240 |
| 50 | SEQ ID NO:5389 SEQUENCE LENGTH:134 | | | | | |

| 5 | SEQUENCE TYPE:nucleic TOPOLOGY:linear CLONE:HUMGSO6422 SEQUENCE DESCRIPTION: GATCCACCTG CCTCGGCCTC CCTTATTTAT ATTTTATATA TGTTTCTATT TAAA | CCAAGGTGCT | GGGATTGCAG GGTTGAATTT | GTGTGAGCCA ATGTATGCCA | TTAAATTATT | 60 120 134 |
|----|--|--------------------------|--------------------------|--------------------------|--------------------------|------------------|
| 10 | SEQ ID NO:5390 SEQUENCE LENGTH:303 SEQUENCE TYPE:nucleic | acid | | | | |
| 15 | TOPOLOGY:linear CLONE:HUMGSO6423 SEQUENCE DESCRIPTION: GATCAACGTC CTCCATGAGC | | | | | |
| 20 | CCTTACCTCA TCTGGTTTAA CAATGCCCAG ACCATGCCTG ACCTGAAGTC ATCACTCGTG TCTNTGGGTG TGTTGTCATA | GTGAAGTGAA CCAANGGAGA | CAGCACCCTG GGGCCATGGG | GGGACAGCAG CGTGCGGCCG | CATACATGGC ACATCTGGAG | 180 240 |
| 25 | NAN SEQ ID NO:5391 SEQUENCE LENGTH:147 SEQUENCE TYPE:nucleic | aoid | | | ٠ | |
| 30 | TOPOLOGY:linear CLONE:HUMGSO6424 SEQUENCE DESCRIPTION: GATCCAGAAG AAGTGACCTG AATGCATTAC TAAATNACAT | AAGTTTCTGT | GCAACACTNC TAGCTCCTCT | ACACTAGGCA TAGGAAAACA | ATGCCATTTC GTTCTTGTGG | 60 120 |
| 35 | CCTTCTATTA AATAGTTTGC SEQ ID NO:5392 | | | | | 147 |
| 40 | SEQUENCE LENGTH:128 SEQUENCE TYPE:nucleic TOPOLOGY:linear CLONE:HUMGS06425 | acid | | | | |
| | SEQUENCE DESCRIPTION: GATCAATTCG ACAGACAGAT ATAACTTTCC AAATGAAGCC ANNAGGAN | GGNGTGTATG | CCCCTCCCAN GCGCATATTI | GTTTGACTTC | ACACACACTC TGTGAATNCC | 60 120 128 |
| 45 | SEQ ID NO:5393 SEQUENCE LENGTH:122 | 2 2 | | | | |
| | SEQUENCE TYPE:nucleic | acid | | | | • |

| 5 . | CLONE: HUMGS06426 SEQUENCE DESCRIPTION: GATCCCTAGG AGCTGNCCTN ACTCTGGGCC CGACCACCAG NN | | | | | |
|-----|---|--|--|--|--|--------------------------|
| 10 | SEQ ID NO:5394 SEQUENCE LENGTH:57 SEQUENCE TYPE:nucleic TOPOLOGY:linear | acid | , | | | |
| 15 | CLONE:HUMGS06427 SEQUENCE DESCRIPTION: GATCACAAAT TTTGATATGT | GCTATACAGG | ·AAATAAAGTG | TTATGATTGA | GAATAAA | 57 |
| 20 | SEQ ID NO:5395 SEQUENCE LENGTH:359 SEQUENCE TYPE:nucleic TOPOLOGY:linear CLONE:HUMGS06428 SEQUENCE DESCRIPTION: | acid | | | | |
| 25 | GATCTGAAAT CTTCAGTAGG AAATTTGACA GCGAGTTCAG GCAAAACCCA GGNAAGAAGC GAGAACTTGC TGCGGNCTGC GTTTGCTCAC TTAGCGGTTG ACCCTGGGCT TNGAATGTTN | CTCAGCTGTG AGTNGCCTCC TTTGTATTTT TTANGNTGGC | GCCCTCTGCC TGGCCTTACA AAAACACAGC TTGAAAAGTT | CTTCCAGCTG TACAGAATGC TTGNGAGTTC TTCATTATGA | TGCCTAGCAA CTGGACAAGA AGAGTTGGTG TACACTGGGT | 120 180 240 300 |
| 35 | SEQ ID NO:5396 SEQUENCE LENGTH:246 SEQUENCE TYPE:nucleic TOPOLOGY:linear CLONE:HUMGS06429 | acid | | | | |
| 40 | SEQUENCE DESCRIPTION: GATCTACCCA CCTCAGCCTC CCCTGNTTAT CAATCTTCAA CACATGTATA CATTGTTTTA TCCTTCCTTC ACATTTCAAA NGNNNN | TATTTTGTAT TTATAATATT | TTTGAGCACT GTGTGTAATT | TTGTTGGATT TATTTCTGAT | TGTTATTTAG TAATTTTATA AANNNNGNN | 180 |
| 45 | SEQ ID NO:5397 SEQUENCE LENGTH:133 SEQUENCE TYPE:nucleic TOPOLOGY:linear | acid | | | | |
| 50 | CLONE: HUMGS 06430 | | | | | |

| | GATCTGGCTG AGGGCTCAGG | ACACAGGCCC | AGCCACCCC | AGGGGCCTCC | ACAGNCCGCT | 60 |
|-----|--------------------------------------|------------|------------|-------------|------------|-----|
| | GCATGACAGC NATACAGTAC | TTAAGTGTCT | GTNTAGACAA | CCAAAGANTA | AATGATTCA1 | 120 |
| 5 | GGTTTTTTT AAA | | | | | 133 |
| | | | | | | |
| | SEQ ID NO:5398 | | | | | |
| | SEQUENCE LENGTH: 119 | | | | | |
| 40 | SEQUENCE TYPE:nucleio | acid | | | | |
| 10 | TOPOLOGY: linear | | • | | | |
| | CLONE: HUMGS06431 | | | | | |
| | SEQUENCE DESCRIPTION: | | | | | |
| | GATCCTGAAC CAAATTTATA | | | | | |
| 15 | AAAATTGCTG CAGTCTTTAC | AGTTGAATAA | ATAAAAACAA | CTGCATAAAT | ATGCCCAAA | 119 |
| | SEO ID NO.5200 | | | | | |
| | SEQ ID NO:5399 SEQUENCE LENGTH:80 | | | | | |
| | SEQUENCE TYPE:nucleic | | | | | |
| | TOPOLOGY: linear | acid | • | | | |
| 20 | CLONE: HUMGS 06432 | | | | | |
| | SEQUENCE DESCRIPTION: | | | | | |
| | GATCACCACC TGTAGAAACT | | TGTGAAACTA | ACGGCCTGCT | CCTAATAAAA | .60 |
| | GTAGCTACCA TTTCTTGAAA | | TOTUMOUM | ACCIOCITACI | UNIAMA | 80 |
| 25 | | | | | | 00 |
| | SEQ ID NO:5400 | | | | | |
| | SEQUENCE LENGTH: 130 | | | | | |
| | SEQUENCE TYPE:nucleic | acid | | | | |
| 30 | TOPOLOGY: linear | | | | | |
| 00 | CLONE: HUNGS 06433 | | | | | |
| | SEQUENCE DESCRIPTION: | | | | | |
| | GATCACTCAT TGCTAATTTT | GTCCTGTACA | GCTTATGTAA | TATTTNNATG | GTGGAGACGG | 60 |
| | ACTCTGTGTG CTCAGGGCCT | TGTCTCTAGG | AAGATTTTGT | CAATTCCAAA | TACAGTTTTG | 120 |
| 35 | AAGATTCAAA | | | | | 130 |
| | | | | | | |
| | SEQ ID NO:5401 | | | • | | |
| | SEQUENCE LENGTH: 379 | | | | | |
| 40 | SEQUENCE TYPE: nucleic | acid | | | | |
| | TOPOLOGY: linear | | | | | |
| | CLONE: HUMGS 06434 | | | | | |
| | SEQUENCE DESCRIPTION: | | | | | |
| a · | GATCAACTGA TAAGTTGCCT | TATGTCACCA | TGGGTTCTGG | CTCCTTGGCA | GCAATGGCTG | 60 |
| 45 | TATTTAAAGA TAAGTTTAGG | | | | | |
| | AANCATCGCA GCTGGCATCT | | | | | |
| | CATCAGCAAG AACAAGCTGG | | | | | |
| | CAGGCTTGGC CGGTACAGGT | | | | | |
| 50 | ACTCCTCTNG AGATTTGAGG | TTNTTGGAAG | AAACANGTCC | AAACAATGGA | CCACTTCCTG | • |
| | AATTGGCATC ANTGGTNNN | | | | | 379 |

| | SEQ ID NO:5402 |
|----|---|
| | SEQUENCE LENGTH: 297 |
| 5 | SEQUENCE TYPE: nucleic acid |
| J | TOPOLOGY: linear |
| | CLONE: HUNGSO6435 |
| | SEQUENCE DESCRIPTION: |
| | GATCTGTAGT AAACAATGGT GATTTTATTT ATTTTNACTC TCTGGAAAAG GAGATAATAC 60 |
| 10 | AATTCCAGAA AGTGAACTCA TATTTCTAAG GTTAAGATTC CCTTTTATTG CACCTAGAAT 120 |
| | AGTGCTATGC ACAGAGCGGG TGCTTGAGTT GTTGTCGTTT TNTGTTTGTT TTTTAAATGT 180 |
| | AAACTGGTAA ATNTTGTGCT TATCTTCAAG GCTAGCTTAN GTATAAAATN GTTTTTTAAA 240 |
| | CACTTGNAAA ATTAAAGGAT TTGTTTTAAN NANCGANNAG GGGNGGTGGT TNGGTNN 297 |
| 15 | SEQ ID NO:5403 |
| | SEQUENCE LENGTH: 294 |
| | SEQUENCE TYPE: nucleic acid |
| | TOPOLOGY:linear |
| 20 | CLONE: HUNGS06436 |
| 20 | SEQUENCE DESCRIPTION: |
| | GATCAAATAG TTGCATAGCA GTATATGTNA ATTTGTGTGT TTTTAGCTGT GACACAGCTG 60 |
| | TGTGATTAAA AGGTATACTT TAGTAGACAT TTATAACTCA AGGATACCTT CTNATTTAAT 120 |
| | CINTICITAT TITIGTACTI TATCATGAAT GCTTTTAGTG TGTGCATAAT AGCTACAGTG 180 |
| 25 | CATAGTTGTA GACATGGTAC ATTCTGGGGA AACAACATT NTNTGTNGCC TTTACTGTTT 240 |
| | GATATACCAN ATNANAANAA AATTGGGTCT NATTNCTNAT GCTGGGGCAC CNTN 294 |
| | SEQ ID NO:5404 |
| | SEQUENCE LENGTH: 103 |
| 30 | SEQUENCE TYPE:nucleic acid |
| | TOPOLOGY: linear |
| | CLONE: HUNGS06437 |
| | SEQUENCE DESCRIPTION: |
| 35 | GATCCTCACC NCTTCCAATT AAAANNCTTC TTCACTCACTCACTCACTCACTCACTCACTCACTC |
| | AAGTCTAGGG TTTCTGTTAA TCAANGNCGT TTTTTCANTT AAA |
| | |
| | SEQ ID NO:5405 |
| 10 | SEQUENCE LENGTH: 60 |
| | SEQUENCE TYPE:nucleic acid TOPOLOGY:linear |
| | |
| | CLONE: HUMGS06438 |
| | SEQUENCE DESCRIPTION: |
| 5 | GATCTGCTGG ACATCATGCC CCATGTCATA GAGAATAAAG CTGATGATTG TACCAGTAAA 60 |
| | SEQ ID NO:5406 |
| | SEQUENCE LENGTH: 91 |
| _ | SEQUENCE TYPE: nucleic acid |

| | TOPOLOGY: linear CLONE: HUMGS06439 |
|----|---|
| | SEQUENCE DESCRIPTION: |
| 5 | GATCATACCN ATAAAAATAA INCCAAACAC CAAATATGAA ITITATGAAT GTACACTITG 60 |
| | TGCTTNACAT TAAAAGAAAN AAACACACAA A 91 |
| | SEQ ID NO:5407 SEQUENCE LENGTH:108 |
| 10 | SEQUENCE TYPE:nucleic acid |
| | TOPOLOGY: linear |
| | CLONE: HUNGS06440 |
| | SEQUENCE DESCRIPTION: |
| 15 | GATCGTCGCC TGCTGGCTAA GACCAGGGAG CTAAAAACTT NAGGAAGGGA ACCTGCCTGG 60 |
| | TTGGNTGCTA CTTCTGATTC ATTGTCCTTN TCCCTNTCAT AAGTNCCN 108 |
| | SEQ ID NO:5408 |
| 20 | SEQUENCE LENGTH: 321 |
| 20 | SEQUENCE TYPE:nucleic acid |
| | TOPOLOGY:linear CLONE:HUMGS06441 |
| | SEQUENCE DESCRIPTION: |
| | GATCTTATGT TTAAAGAGAT TCTGTTATTA GCACCATGAA CTCGTACTAT GAAATNTTTA 60 |
| 25 | AGCCTTTAT TTTCTAACT ATATTACTGT AGGACTGGAT ATTAGGTGTC ATATAGGAAA 120 |
| | CACAAAAGTT ATTGCTGTTT GCTAAAGCAA AGTAGCAGAA AATTTTGTAT ATGCAAAACT 180 |
| | GTTGAAGGNC CATAGAGAAA TGTGTACTAC TGACGGGGCT TTTACTAGGC TTCCTGCGTG 240 |
| | TGTANAAGTC GAGGTTTTGG CTTGGCATTC AGGGTGACAT GGTGGTGCTA AATTGTTTTC 300 |
| 30 | CNTTTAAAAG GCNTTCTATT N 321 |
| | SEQ ID NO:5409 |
| | SEQUENCE LENGTH: 390 |
| 35 | SEQUENCE TYPE:nucleic acid |
| | TOPOLOGY:linear CLONE:HUMGS06442 |
| | SEQUENCE DESCRIPTION: |
| | GATCCGCAGC AGAAGCTCTT CCCTTCTGTA TCCTATGTAT GCAGTGTGCT TTTNCTTGCC 60 |
| 40 | AGCTTGGGGC ATTCTTGCTT AGACAGTCAG CATTTGTCTC CNCCTTTAAC TGAGTCATCA 120 |
| | TCTTAGTCCA ACTAATGCAG TCGATACAAT GCGTAGATAG AAGAAGCCCC ACGGGAGCCA 180 |
| | GGATGGGACT GGTCGTGGTT TGTGCTTTTC TCCAAGTCAG CACCCAAAGG TCANTGCACA 240 |
| | GAGACNCCGN GTGGGTGAGC GCTNGCTTCT CAAACGGNCG AAGTTGCCTC TTTTAGGNAT 300 |
| 45 | CTCTTTTGGA ATTTGGGAGC ACGATGNCTC TNGAGTTTGA GCTATTAAAG NACTNCTTGG 360 |
| 70 | CACATTAANA AAANANAAAT GNGGTNNGNN 390 |
| | SEQ ID NO:5410 |
| | SEQUENCE LENGTH: 197 |
| 50 | SEQUENCE TYPE:nucleic acid |

| 5 | TOPOLOGY:linear CLONE:HUMGSO6443 SEQUENCE DESCRIPTION: GATCCCAGGG AAATATCAGC GGGAACACAT TCCTTTGCTG GGGGCAAAGC TGTTTTTCAG AACAGCTTTC CCACAAA | GGGTTCAGCG | CCTCTNCTGG | GGCTGGAAGT | GCCAAAGCCT | 120 |
|----|---|------------|------------|------------|------------|-----------|
| 10 | SEQ ID NO:5411 SEQUENCE LENGTH:104 SEQUENCE TYPE:nucleic TOPOLOGY:linear | acid | | | | |
| 15 | CLONE: HUMGS06444 SEQUENCE DESCRIPTION: GATCTTCAAG TGAACATCTC CTCCCAGGAA GATGGGGGTC | | | | GGAAGGCCCC | 60 104 |
| 20 | SEQ ID NO:5412 SEQUENCE LENGTH:244 SEQUENCE TYPE:nucleic TOPOLOGY:linear | acid | | | | |
| 25 | CLONE:HUMGS06445 SEQUENCE DESCRIPTION: GATCACCTGA ACAATCTAGA TTGATAAAGC AAAGCTAACT | GTGTGTTTAG | AAGGCACTGT | AACTGGTAGC | TAGTTCTTGA | 120 |
| 30 | TTCAATAGAA AAATGCAGCA ATCTATGGAT ATTAGTAACA TAAA | | | | | |
| 35 | SEQ ID NO:5413 SEQUENCE LENGTH:139 SEQUENCE TYPE:nucleic TOPOLOGY:linear CLONE:HUMGSO6446 SEQUENCE DESCRIPTION: | acid | · | | | |
| 40 | GATCTNAGAA AANGCACCAC TTAGGCAACA GGACCTGTAC GTTTTAAATA AATGGCAAA | | | | | |
| 45 | SEQ ID NO:5414 SEQUENCE LENGTH:196 SEQUENCE TYPE:nucleic TOPOLOGY:linear CLONE:HUMGSO6447 | acid | | | | |
| 50 | SEQUENCE DESCRIPTION: | | | | | |

| 5 | GATUGGGGTU CATGGGCCCA CCACCCCCTG CAAGGAGGTU TCCATGAAGC ATGTAGGCAA 6 CCAGCAATAC AACGTCACAT ACGTCGTCAA GGAGAGGGGC GATTATNTNU TGGCTGTGAA 12 GTGGGGGGAG GAACACATAC CTGGCAGCCC TTTTCATGTU ACAGTGCCTT AAAACAGTTT 18 TCTCAAATCU TGGAAA | 20 30 |
|----|---|----------|
| 10 | SEQ ID NO:5415 SEQUENCE LENGTH:69 SEQUENCE TYPE:nucleic acid TOPOLOGY:linear CLONE:HUMGS06448 | |
| 15 | SEQUENCE DESCRIPTION: GATCCATTAA TCTGCTAATT GGTTGCCTAT GAAATCACAT TGTCTGTTAT TAAAGCTTTT 60 TACCATAAA | - |
| 20 | SEQ ID NO:5416 SEQUENCE LENGTH:119 SEQUENCE TYPE:nucleic acid TOPOLOGY:linear CLONE:HUMGS06449 SEQUENCE DESCRIPTION: | |
| 25 | GATCTAGTAA AGTGTTTTAG AACCCCTTTT TATCCCATGC ACCATTCAGT AAACATAAAA 60 ATCACAATTC TGCTAATGTC ATTTGGAACT TCAAAATAAA TATCTTGTCT AAAAACAAA 119 |) |
| 30 | SEQ ID NO:5417 SEQUENCE LENGTH:308 SEQUENCE TYPE:nucleic acid TOPOLOGY:linear CLONE:HUMGS06450 SEQUENCE DESCRIPTION: | |
| 35 | GATCATTGCA TGAATAGAAT CAAGGAGCTC ACTCAGAGTG AACTTNAATT ATNACTTINN 60 AGGCTCATTT GTACTCTCTT CCCCTCTCAT CGTCATGGTC AGGCTCTGAT ACCTGCTTTN 120 AAAATGGAGC TAGAATGCTT GCTGGATTGA AAGGGAGTGC CTATCTATAT TTAGCAAGAG 180 ACACTATTAC CAAAGATTGT NGGTTAGGCC AGATTGACAC CTATTTNTNG NCNNTATGCG 240 TATATTTNCC TGTGCTATAT ATGAAAANTA ATTGCATGAT TTCTCATTCC TGNGTCATTT 300 CTCAGNGN | |
| 40 | SEQ ID NO:5418 SEQUENCE LENGTH:293 SEQUENCE TYPE:nucleic acid | |
| 45 | TOPOLOGY:linear CLONE:HUMGS06451 SEQUENCE DESCRIPTION: | |
| 50 | GATCTGAAGG GAGAAGGTGA TATTCATGAA AATGTGGACA CAGACTTGCC AGGCAGCCTG 60 GGGCAGAGTG AAGAGAAGCC CGTGCCTGCT GCGNCTGTGC CCAGCCCGGT GGCCCCGGCC 120 CCAGTGCCAT CCAGAAGAAA TCCCCCTGGC GGCAAGTCCA GCCTCGTNTT GGGTTAGCTC 180 | |

| | TGACTGTCCT GAACGCTGTC GTTCTGTCTG TTTCCTCCAT GCTTGTGAAC TGCACAACTT 24 GAGCCTGACT GTACATNTTT TGGATTTGTT TCATTANAAA GAAGCACTTT AAA 29 | |
|----|--|----|
| | CHOOCIGATI GIACATHIII INGAITIGII ICAITANAAA GAAGCACTTT AAA 29 |)3 |
| 5 | SEQ ID NO:5419 | |
| | SEQUENCE LENGTH: 180 | |
| | SEQUENCE TYPE: nucleic acid | |
| | TOPOLOGY: linear | |
| 10 | CLONE: HUMGS06452 | |
| | SEQUENCE DESCRIPTION: | |
| | GATCCTGGNA CATTTCATAA GCTTGGGTAA AAAAATTTTT TGTTATNNTC CATGCACAAT 6 | 0 |
| | AAGGGAAATG TTTTAATTGG CTTTGNGCCT CCTGCTTTAC AACAGTTCTG GCCTCAAGTT 126 | n |
| | ACCAGGTAGC CTGAACTITG NITITATITI ACCATTAANI TGCTTTAATA CCAINGTAAA 180 | 0 |
| 15 | | |
| | SEQ ID NO:5420 | |
| | SEQUENCE LENGTH: 99 | |
| | SEQUENCE TYPE:nucleic acid | |
| 20 | TOPOLOGY:linear | |
| | CLONE: HUNGSO6453 | |
| | SEQUENCE DESCRIPTION: | |
| | GATCACTTGA GCCCANGTTG AGGTTGAGGC TGCAGTGAAC TATNATTGTA CCACTGCACT 60 |) |
| | TCAGCCTGGG CAACAAAGGA AGACCCCAGT TCTGGGAAA 99 |) |
| 25 | CEO ID NO 5404 | |
| | SEQ ID NO:5421 | |
| | SEQUENCE LENGTH: 209 | |
| | SEQUENCE TYPE:nucleic acid | |
| 30 | TOPOLOGY: linear | |
| | CLONE: HUMGS06454 | |
| | SEQUENCE DESCRIPTION: | |
| | GATCCCTGCA TINCCTGAAG AINTITAAAC GTGAGAGTNI GGTAGGCAAA GCAGTCTGAG 60 | |
| | AAAGAAATAG GAAATGCAGA AATAGGTTTT TTTTGGTTGC ATATAATCTT TGCNCTTTTT 120 | |
| 35 | AAGCTCTGTG AGCTCTGAAA TATATTTTNG GNTTACTTCA GTGTGTTTGA CAAGACAGCT 180 TGATATTNCT NTCAAACAAA TGACTNNGN | |
| | 209 | |
| | SEQ ID NO:5422 | |
| | SEQUENCE LENGTH: 246 | |
| 40 | SEQUENCE TYPE:nucleic acid | |
| | TOPOLOGY:linear | |
| | CLONE: HUMGS06455 | |
| | SEQUENCE DESCRIPTION: | |
| | GATCCAGTGG ACAAAAGAGG CCAAAGTATG GGAGTTGGGA ATTAGGAGTAGGA | |
| 45 | TGATGATGAT GGTTCAGANT TTCATGAACA TATATTTNTG GAGAAACACC TGGAGAGCTT 120 | |
| | TCCAAAACAA GGACCAATTC GCCACTTCAT GGAGCTGGTG ACTTGTGGCC TTTCCAAAAN 180 | |
| | CCCATATCTT AGTGTTAAAC AGNNGGTTGA NCACATNGAG TGGTTTAGAN ATTNTTTTNA 240 | |
| | TGNNAN | |
| 50 | 246 | |
| | | |

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| 5 | SEQ ID NO:5423 SEQUENCE LENGTH:105 SEQUENCE TYPE:nucleic acid TOPOLOGY:linear CLONE:HUMGS06456 | |
|----|---|----------------|
| 10 | 4.10.4010.1 0.111100.111111 000.140000 0.101111111111 | 60 05 |
| 15 | SEQ ID NO:5424 SEQUENCE LENGTH:159 SEQUENCE TYPE:nucleic acid TOPOLOGY:linear CLONE:HUMGS06457 | |
| 20 | AGTGAGCTTG TGCCGTCCCN CTAGGATGGG GGCATGGCCN TGGGCTGCCA GATGCCCACA 1 | 60 20 59 |
| 25 | SEQ ID NO:5425 SEQUENCE LENGTH:211 SEQUENCE TYPE:nucleic acid TOPOLOGY:linear CLONE:HUMGS06458 SEQUENCE DESCRIPTION: | |
| 30 | GATCACCTAT CCCCTGTTTC AACAATGAAT AAGGAACAGC AAATNTTTGA GACGTGCCCT (GAAACTGAAC AGAGATGCAC TCTCCAGTGA CTCCCCAGCA AACACAAGGT GCAGCAGGGT 15 | |
| 35 | SEQ ID NO:5426 SEQUENCE LENGTH:66 SEQUENCE TYPE:nucleic acid TOPOLOGY:linear | |
| 40 | | 60 66 |
| 45 | SEQ ID NO:5427 SEQUENCE LENGTH:189 SEQUENCE TYPE:nucleic acid TOPOLOGY:linear CLONE:HUMGS06460 | |
| 50 | SEQUENCE DESCRIPTION: | • |

| 5 | GATCATTATT TCCATTCTTA ATGTGAAAAA AAGTAATTAT TTATACTTAT TATAAAAAGT 60 ATTTGAAATT TGCACATTTA ATTGTCCCTA ATAGAAAGCC ACCTATTCTT TGTTGGATTT 120 CTTCAAGTTT TTCTAAATAA ATGTAACTTT TCACAAGAGT CAACATTAAA AAATAAATTA 180 TTTAAGAAA |
|----|--|
| | 1117447444 189 |
| | SEQ ID NO:5428 |
| | SEQUENCE LENGTH: 193 |
| 10 | SEQUENCE TYPE: nucleic acid |
| 70 | TOPOLOGY: linear |
| | CLONE: HUNGS06461 |
| 4 | SEQUENCE DESCRIPTION: |
| | GATCTAGACA TGCCTTAGGT AACTGCAGAA ATAGCAAATT AAATNATTAA TGAGCTTATT 60 |
| 15 | AGTCATAGTA AACATACAGA TTCCTANTTC TATGACAGTG TACATNTATG ANAATAAATG 120 |
| | ATGAAAAAG AACTATAGTA TNTTTAAAAA TATGCTTTTA TTTNTATTNC ACATAGTGNA 180 |
| | AAGTTCTACA NAN 193 |
| | SEC ID NO. 5400 |
| 20 | SEQ ID NO:5429 SEQUENCE LENGTH:270 |
| | SEQUENCE TYPE:nucleic acid |
| | TOPOLOGY: linear |
| | CLONE: HUNGSO6462 |
| | SEQUENCE DESCRIPTION: |
| 25 | CATCACATTT CTCCCAACAT CACANGTHUT TOCCACACA COLORS |
| | CTTGTGGCCC AAAGGCTATG CTTGCCTCCG GCTGAGTGCC TGGNATAGGC CTTTNCTATG 120 |
| | TCTCCCCAAG GCTGGGGTGC TGAGCCTGCC TTCCTCACCA CCTAGCCATA GTCTCAAACC 180 |
| | TGTGGGGAAG GNGGNNTTCT CCCTGCCCGG GAAGAGGACA GATAACTGAT TTCCGTTCTT 240 |
| 30 | TTGACTGTGT TTTAAAATTC TCTTTCTAAA 270 |
| | |
| | SEQ ID NO:5430 |
| | SEQUENCE LENGTH: 162 |
| 35 | SEQUENCE TYPE: nucleic acid |
| | TOPOLOGY: linear |
| | CLONE: HUNGS06463 |
| | SEQUENCE DESCRIPTION: |
| 0. | GATCTCCTGG GACTCCGAGC AAGGCCTGCA CGAGAGAGGG CTGAAAGGCT GCTGGGGCTG 60 |
| 40 | CCACCTCGCT ATTCCCGCAT AAGCATCTGC CCCCAACCCC TTTGACCTTC ATCTGATGGA 120 |
| | CATTITTATA CAGAAAACAA TAAAGATTTC CCTCTCAGCA AA 162 |
| | SEQ ID NO:5431 |
| | SEQUENCE LENGTH: 83 |
| 45 | SEQUENCE TYPE:nucleic acid |
| | TOPOLOGY: linear |
| | CLONE: HUNGS06464 |
| | SEQUENCE DESCRIPTION: |
| 50 | GATCAGTTGT ACTAGAGCAA CATGATAGAA GAGAAAATG |
| | GATOAGTIGI ACTAGAGGAA CATCATAGAA GAGAAAAATC CAACTCITTA TATTAAAAAT 60 |

| | NAATACAATA AGAAAATTGC | AAA | | | | 83 |
|----|---|------------|----------------------|-----------------|------------|-----|
| | | | | | | |
| 5 | SEQ ID NO:5432 | | | | | |
| | SEQUENCE LENGTH: 168 | • • | | | | |
| | SEQUENCE TYPE:nucleic | acid | | | | |
| | TOPOLOGY: linear | | | | | |
| 10 | CLONE: HUNGSO6465 | | | | | |
| ,0 | SEQUENCE DESCRIPTION: | CLACALATO | 1 * **1100110 | 4 TTTCC 4 C 4 C | TT100T10T1 | |
| | GATCTGCAAG CCCTGCTGTA GCTGCCTAAG TGTGCACTTT | | | | - | |
| | CTNCTTATAT TATATTANCA | | | | HUINIIAIC | |
| | CINCILATAT TATATTANCA | MANIMANICA | VOILOIGGIV | INGICAAA | | 168 |
| 15 | SEQ ID NO:5433 | | | | | |
| | SEQUENCE LENGTH: 357 | | | | | |
| | SEQUENCE TYPE:nucleic | acid | | | | |
| | TOPOLOGY: linear | | | | | |
| 20 | CLONE: HUMGS06466 | | | | | |
| | SEQUENCE DESCRIPTION: | | | | | |
| | GATCCACCCA CCTTGGCCTC | CCAAGGTGCT | GGGATTGCAT | GCATGAGCCA | CTGCACCCAG | 60 |
| | CCAAGATACA TTGTTGACGT | GAAAAAAAA | TTTCAAGATA | TATAGAACAG | TGTAAACATG | 120 |
| | CATCCAATTG TGTTTTTCAN | GGAGAAAATA | ATGTATACTT | GTATTGGTTT | ACGTATGAAA | 180 |
| 25 | CAAAANTATC TAGAAGGATG | AATAAAAATC | TAGTAACTGA | TTNTACACTA | GGGCAAATTG | 240 |
| | GAAACAANTG GGNGACTTCA | TGGATGACTT | TTTATATTT | GTAAAGTGGA | NGTGANTGTN | 300 |
| | TTACTTATTC CACCAGTTAN | GTTGAAACCT | TTNNNNGGNA | GGTTNGTGGT | GNTTNTN | 357 |
| | SEQ ID NO:5434 | | | | | |
| 30 | SEQUENCE LENGTH: 175 | | | | | |
| | SEQUENCE TYPE:nucleic | acid | | | | |
| | TOPOLOGY: linear | acru | | | | |
| | CLONE: HUMGS06468 | | | | | |
| 35 | SEQUENCE DESCRIPTION: | | | | | |
| | GATCAGATGG CTTAGAGAAA | TTNCTGGAAT | ATTCACATTC | GAAGATTCCT | TATTAATNAA | 60 |
| | TGTCTTTNAC TTAAATCTAA | CCAAAAACTG | CAACATTATT | CTTTGTACAT | TTNCATTATA | 120 |
| | TAGTGTTAAC AAGCTTAGTT | GCANACAANT | AAAATACTTA | AGCTATTTGT | TTAAA | 175 |
| 40 | | | | | | |
| | SEQ ID NO:5435 | | | | | |
| | SEQUENCE LENGTH: 218 | | | | | |
| | SEQUENCE TYPE: nucleic | acid | | | | |
| 45 | TOPOLOGY: linear | | | | | |
| 45 | CLONE: HUNGSO6469 | | | | | |
| | SEQUENCE DESCRIPTION: | | | | | |
| | GATCTGGTGA AACTNGCTAA | | | | | |
| | TTTNGGGAAG AGGAGGTGAA | | | | | |
| 50 | AAANATGGAA CCGGTTCTCA | | | GGCCCAGTTT | GGCTGATGCT | • |
| | NTCATCAGTN CTCCGATTTT | AAUIUUIUU | אתתטטנטט | | | 218 |

| 5 | SEQ ID NO:5436 SEQUENCE LENGTH:153 SEQUENCE TYPE:nucleic TOPOLOGY:linear CLONE:HUMGSO6470 SEQUENCE DESCRIPTION: GATCACAGTG GGCAGCCGGC | ACCCNGCACC | | | | |
|-----------|---|------------|------------|------------|------------|-----|
| 10 | CCCTCATCTA CGCTGCTCCG | | | GCCGTGCAAA | GGGAATTCTT | |
| | GACATTAAAT AAAAGGTATC | CAGNTTGCAG | AAA | | | 153 |
| 15 | SEQ ID NO:5437 SEQUENCE LENGTH:310 SEQUENCE TYPE:nucleic TOPOLOGY:linear CLONE:HUMGS06471 | acid | | | | |
| | SEQUENCE DESCRIPTION: | | | | | |
| 00 | GATCAGTTGG GTGCACGAGT | GGGTTACATC | GAACTGGATT | ATAGGAAGCT | TATAACAAGA | 60 |
| 20 | ATGGAAGATT CTTAAATAAC | TCACTTTCTT | TGGNATCCAG | TAACAGTAGA | TGTTCAAAAT | 120 |
| | ATGTAGCTGA TTAATACCAG | CATTGTGAAC | GCTGTACAGC | CTTGTGGTTA | TTACTAAGCA | 180 |
| | AGTTACTACT AGCTTCTGAA | | | | | |
| | CCNTGGCTGN TACTTTNCCC | TAAGNTNAAT | CTNCGAGAAT | CTGAAATGNT | TNCTNCANTT | |
| 25 | NTCAGGGAGN | | | | | 310 |
| 30 | SEQ ID NO:5438 SEQUENCE LENGTH:67 SEQUENCE TYPE:nucleic TOPOLOGY:linear CLONE:HUNGSO6472 SEQUENCE DESCRIPTION: | acid | | | | |
| | GATCACATTN GATNAAAGAG | CAAAACTTGT | TAAGTCCAAA | ATAAATTCTT | ACTGTTTATA | 60 |
| 35 | TCCTAAA | | | | | 67 |
| 40 | SEQ ID NO:5439 SEQUENCE LENGTH:268 SEQUENCE TYPE:nucleic | acid | | | | |
| 0 | TOPOLOGY: linear | | | | | |
| | CLONE: HUNGS06473 SEQUENCE DESCRIPTION: | | | • | | |
| | GATCCACAGA AGGTCCTGGT | GGTATTTGTA | ACTTTTTGC. | AGGCATTTTT | TATATATAT | 60 |
| 45 | TTTTGTGCAC ATTTTTTTT | | | | | |
| 45 | ATAGTEGANE AATTEATATA | | | | | |
| | TCTATTATCT CAAACTACTG | GCAATTTGTA | AAGCNATATA | TATGNTATAT | AAAGGTGATT | 240 |
| | GCNGCNTTNC ANTGTTAGCC | CCNGTGNN | | | | 268 |

| | SEQ ID NO:5440 SEQUENCE LENGTH:306 | | | | | |
|----|---|---------------|------------------|---------------------|------------------|-----|
| | SEQUENCE TYPE:nucleic | acid | | | | |
| 5 | TOPOLOGY:linear | | | | | |
| - | CLONE: HUMGS06474 | | | | | |
| | SEQUENCE DESCRIPTION: | | | | | |
| | GATCCAGGCT CAGAACTTCT | TCTCCAGCTT | CACCCTGATG | AAGCTGAGGC | ACTCCTCCGC | 60 |
| | TCTGGGTGGG GCCAGCCTAG | GGGCCAGGCA | CATCGGGCAC | CTNCTCCCCA | TGGACTATAG | 120 |
| 10 | CGCCAATGCC ATTGCCTTCT | ATTCCTACAC | CTNTTCCTAG | GGGGCTGGTC | CCGGGCTCCA | 180 |
| | CCNGGTCCAA GCTCAGTGGA | CACTGGGTCT | GAAAGGAAGG | AGTCTTTTGN | TTCCTTTCTC | 240 |
| | CINTITACAN GAACAAACAT | AGATGGTAAA | TAAATNNACT | TTNTCCNNCT | CCCCAGAANN | 300 |
| | NAATNN | | | | | 306 |
| 15 | <u> </u> | | | | | |
| | SEQ ID NO:5441 | | | | | |
| | SEQUENCE LENGTH: 111 | | | | | |
| | SEQUENCE TYPE:nucleic | acid | | | | |
| 20 | TOPOLOGY: linear | | | | | |
| 20 | CLONE: HUNGS06475 | | | | | |
| | SEQUENCE DESCRIPTION: | CTC & CTC CTC | ጥተተተ ነ ነ ነ ር ነ ር | ひととうかいいいかい | ATCCTACAAC | gΛ |
| | GATCAGCTAC ATAAAACGGC ATNACTTTTT AAGATAATNA | | | | | 111 |
| | AINACIIIII AAUAIAAINA | NULNULNANA | dilicindid | UNINCATUAN | л | 111 |
| 25 | SEQ ID NO:5442 | | | | | |
| | SEQUENCE LENGTH: 255 | | | | | |
| | SEQUENCE TYPE: nucleic | acid | | | | |
| | TOPOLOGY: linear | | | | | |
| 30 | CLONE: HUMGS06476 | | | | | |
| | SEQUENCE DESCRIPTION: | | | | , | |
| | GATCCCAACA TTTTTGGCAG | TGAGCATTAC | GATGTTANCC | GTGGGGTGCA | AAANATCTGA | 60 |
| | ATAAAATTTA CAAAAGGAGA | | | | | |
| 35 | CCCCAGGAGC TTGAATGTCT | | | | | |
| | GGTTTTATGT TGTTGTCTCT | CTGCTCCAGC | TCACCCNTNA | AANCTCTNCC | CTNGGATGTT | |
| | GGAACTCANA TTCTN | | | | | 255 |
| | SEQ ID NO:5443 | | | | | |
| 40 | SEQUENCE LENGTH: 313 | | | | | |
| 40 | SEQUENCE TYPE:nucleic | acid | | | | |
| | TOPOLOGY:linear | | | | | |
| | CLONE: HUMGS06477 | | | | | |
| | SEQUENCE DESCRIPTION: | | | | | |
| 45 | GATCCCATAA AGCTACGAGG | GGGACGGGAG | AGGGCAGTGC | AATGGGAAGT | AAAGAGATAT | 60 |
| | TTNCCAGTAG GAAAAGCAAT | GCTTTCTTGT | CTTTAGACTC | AAATGCTTAG | GGAACGTTTC | 120 |
| | ATTTCTCATT CATGGGGAAA | GGCAGCCTCC | TTAAATGTTT | NCTGAAGAGC | GGTAAAATCT | 180 |
| | AGAAGCTTAA GANTTTNCAG | | - | | | |
| | ************************************* | THECCEATER | TWOOTTTOOA | ▲ TTTTUCTT ▲ | TMC#CC#CT | 200 |

| | ATATTTTGT AAA | | | | | 313 |
|----|---|-------------|------------|------------|------------|------------|
| 5 | SEQ ID NO:5444 SEQUENCE LENGTH:218 | | | | | |
| | SEQUENCE TYPE:nucleic TOPOLOGY:linear CLONE:HUMGS06478 | acid | | | | |
| 10 | SEQUENCE DESCRIPTION: GATCAGCTCA CACCCAGTCT | | | | | |
| | AATATGTCCA TAGTGGGGTC GGTTNTAACT TTTCCATATT TTACAAGAGG CTTTTNCAAG | GTTAGAACAT | CATGGNGACA | | | |
| 15 | | CICIACCAIG | CITIONAN | | | 210 |
| | SEQ ID NO:5445 SEQUENCE LENGTH:256 SEQUENCE TYPE:nucleic | acid | | | | |
| 20 | TOPOLOGY:linear CLONE:HUMGSO6481 | | | | | |
| | SEQUENCE DESCRIPTION: GATCATTGTG AAGGCAGGGG | | | | | |
| | GTCAGTTGTT ATTNATTGAA | | | | | |
| 25 | CNTTAAGANC TAAAATGNTC TACTGCCTTG TTTAATGGTA | | | | | |
| | ATTGATGNNT NGGATN | GITTIACAGI | difference | INGANCAAAG | GUGCIIAAII | 256 |
| 30 | SEQ ID NO:5446 SEQUENCE LENGTH:344 | | | | | |
| | SEQUENCE TYPE:nucleic | acid | | | | |
| | TOPOLOGY:linear CLONE:HUMGS06482 | | | | | |
| | SEQUENCE DESCRIPTION: | | | | | |
| 35 | GATCCGGAAG CGAATTCATC | | | | | 60 |
| | CATTCCACCC ACCAGTGCCA | | | | | |
| | CTTTCTCTAC ATTGCCTACA | | | | | |
| 40 | AGCTGGAGGG GGGTCTCATT | | | | | |
| | TCCTTCAAGC TTAAACANCA CTTTCTNTCC AGCTNTCTTT | | | | GTTTTGTGGG | 300 344 |
| | SEQ ID NO:5447 | | | | | |
| 45 | SEQUENCE LENGTH: 334 | | | | | |
| .5 | SEQUENCE TYPE:nucleic | acid | | | | |
| | TOPOLOGY: linear | | | | | |
| | CLONE: HUNGS 06483 SEQUENCE DESCRIPTION: | | | | | |
| 50 | GATCTTTCTA GGAGGGAGAC | ACTROCCOCCT | CAAATCGTCC | ACCCACCTTC | CTC+TCC+00 | |

| | CNATCCCTCC CCAGTTCATT GCACTTTGAT TAGCAGCGGA ACAAGGAGTC AGACATTTTA 120 |
|----|---|
| | AGATGGTGGC AGTAGAGGCT ATGGACAGGG CATGNCACGT GGGCTCATAT GGGNCTNAGA 180 |
| | GTAGTTGTCT TTCCTGGCAC TAACGTTGAG CNCCTGGAGG CACTGAAGTG CTTAGTGTNC 240 |
| 5 | TNGGAGTATT GGGGTCTGAC CCCAAACAAC TTTCAGNTTC NNTAACATAC TGGGNCTTGA 300 |
| | CTGTTTTNTC TNGGTNCCNN ATGGGTCCTG GTTN 334 |
| | SEQ ID NO:5448 |
| | SEQUENCE LENGTH: 80 |
| 10 | SEQUENCE TYPE:nucleic acid |
| | TOPOLOGY: linear |
| | CLONE: HUNGSO6484 |
| | SEQUENCE DESCRIPTION: |
| 15 | GATCTAGAAA GCCCTAAGCT CTCACCACTG GCTACCTTGA GCCTCTACAG AATNAGGAAG 60 |
| | TAAAGTCTAA GGCAGTTAAA 80 |
| | SEQ ID NO:5449 |
| | SEQUENCE LENGTH: 147 |
| 20 | SEQUENCE TYPE: nucleic acid |
| | TOPOLOGY:linear |
| | CLONE: HUMGS06485 |
| | SEQUENCE DESCRIPTION: |
| 25 | GATCGCANCT CCGAAGACGG AGAGGAGGGA AATGGGGCCC TITCCCCTCT ATTGCATCCC 60 |
| | CCTGCCCGNC TCCTTCCCCG CACCCACGTG CCCTAGATTC ATGGCAGAAA ATGNCCAAAT 120 |
| | CCNGNGTATT TGTTGTANAT ANTTAAN 147 |
| | SEQ ID NO:5450 |
| 30 | SEQUENCE LENGTH: 109 |
| | SEQUENCE TYPE: nucleic acid |
| | TOPOLOGY: linear |
| | CLONE: HUMGS06486 |
| 35 | SEQUENCE DESCRIPTION: |
| 33 | GATCATTGTA TATNACACAC ATGTATCAAA GTATCACATG TACTCCAAAT GTTTGTACAA 60 |
| | CTATNATATA TCATTAAAAA AATACAAANT AAAAAATGTA GCTATGAAA 109 |
| | SEQ ID NO:5451 |
| 40 | SEQUENCE LENGTH: 274 |
| | SEQUENCE TYPE:nucleic acid |
| | TOPOLOGY: linear |
| | CLONE: HUMGS06487 |
| 45 | SEQUENCE DESCRIPTION: |
| | GATCCAGTGT GCAGAAGAGC CAGCAGGGAA CCGGAAGCTC TNATGTCAAG GCCAGAGCAG 60 |
| | TTGAGANTGG GNCCCAGAGT AGATGCTGAC CTGGGCACTC CACCATTCCG GGGCCACCAC 120 |
| | AGAGATGCCA GCAGGATGCC ACTITNCCAG CCCGACACAC GGACCTTTNT AAAGANCAGC 180 |
| | AACAGGCAGG AGAGGCAGCG TNTGNCCAGA TTGTTTCCCG TCATTGGGTG GCATNTGTTA 240 |
| | |

| 5 | SEQ ID NO:5452 SEQUENCE LENGTH:183 SEQUENCE TYPE:nucleic acid TOPOLOGY:linear CLONE:HUMGS06488 SEQUENCE DESCRIPTION: |
|----|---|
| 10 | GATCACGGCT CTTTTTAAGC CCTGGCAGCA TTTTGGTCCC TGCTCCTTGC CCATAGTAAA ACAGCTTGAA ATATCCCATG CAAGAGAGTA GTTTCAAGTG GGCAACTCTG CTCTCTATTT 12 AAAAGCGTGC ACAATCAAAA GTACTATGCA ATTTTAGGAC AATAAAGANC ATACAGTTTT 18 AAA |
| 15 | SEQ ID NO:5453 SEQUENCE LENGTH:215 SEQUENCE TYPE:nucleic acid TOPOLOGY:linear |
| 20 | CLONE: HUMGS06489 SEQUENCE DESCRIPTION: GATCACCAGT GGGCACTAGA TGATGTNGAA GAAGAGCTCA TGGCCAAANA CCTCCACTTC 6 GAAGGCATGT TCAAAAAGGA ATTACAGACC TCTATTTTTT GAAGACCGAG CAGGGATTAG 12 CTGTGTCAGG AACTTGGAGT TGCACTTAAC CTTGTAACTT TGTTTGGAGC TGGCACCTCT 18 |
| 25 | TUANATAMAA AUGUAUGUNTU CACGAGCTUU GCAAA 21 |
| 30 | SEQ ID NO:5454 SEQUENCE LENGTH:70 SEQUENCE TYPE:nucleic acid TOPOLOGY:linear CLONE:HUMGSO6490 SEQUENCE DESCRIPTION: GATCAAAAAA TTCAATTINC TACAAGTTCT NCTATCTGAA ATAAATAACA GACTCATTTT 6 |
| | TGACAATAAA 7 |
| 35 | SEQ ID NO:5455 SEQUENCE LENGTH:104 SEQUENCE TYPE:nucleic acid |
| 40 | TOPOLOGY:linear CLONE:HUMGSO6491 SEQUENCE DESCRIPTION: GATCANGNTA GTGGTGTCTG TCAGCTGTCT AAGAGGTTGG AGAATNAACT ACTCAAGATA 60 GTCACGAAAA NACTGAAAGT TTNATTTTCC TTTCCATATT TAAN 10- |
| 45 | SEQ ID NO:5456 SEQUENCE LENGTH:214 SEQUENCE TYPE:nucleic acid TOPOLOGY:linear |

| | CLONE: HUMGS06492 SEQUENCE DESCRIPTION: | - CC + CC | TO 1 C 1 TO 1 1 TO | T. T | | |
|-----|---|--------------------|---------------------------|------------|--------------|-----|
| 5 . | GATCCCAGTT ATCCTTGNAT GTGAATTCAT TATTAAAAAC | | | | | |
| • | ATTAMATTC TAAGGTCATT | | | | | |
| • | TTTCATGGAA AAAANTAAAT | | | | V10011110111 | 214 |
| 10 | SEQ ID NO:5457 SEQUENCE LENGTH:105 | | | | | |
| | SEQUENCE TYPE:nucleic | aaid | | | | |
| | TOPOLOGY: linear | acru | | | | |
| | CLONE: HUNGS06493 | | | | | |
| 15 | SEQUENCE DESCRIPTION: | | | | | |
| | GATCCAGAAT AACTTCTCCC | ACTCATATCT | NCAGTTCACC | NAATGAAATN | AATGGATAGC | 60 |
| | AAGAGCCCNT TGTTCCCAGG | ACTTTAAGGC | AATTATAAAA | AANTN | | 105 |
| | SEQ_ID_NO:5458 | | | • | | |
| 20 | SEQUENCE LENGTH: 56 | | | | | |
| | SEQUENCE TYPE:nucleic | acid | | | | |
| | TOPOLOGY: linear | | | | | |
| | CLONE: HUMGS06496 SEQUENCE DESCRIPTION: | | | | | |
| 25 | GATCCTTTTA TAAATTTAAA | AAATTTAATG | TTAATAAAGC | GAGGTGTAAT | TGTAAA | 56 |
| | | | | | | |
| | SEQ ID NO:5459 | | | | | |
| | SEQUENCE LENGTH: 103 | | | | | |
| 30 | SEQUENCE TYPE:nucleic | acid | | | | |
| | TOPOLOGY:linear CLONE:HUMGS06498 | | | | | |
| | SEQUENCE DESCRIPTION: | | | | | |
| | GATCCGNGAA AGGCTGAAAG | GCCAGGAAGA | CAGCCTAGCC | TCTNCAGTGG | ATGCTGCCAC | 60 |
| 35 | CGNACAAAAG ACCTGTNACT | | | | | 103 |
| | SEQ ID NO:5460 | | | | | |
| | SEQUENCE LENGTH: 190 | | | | | |
| 40 | SEQUENCE TYPE:nucleic | acid | | | | |
| | TOPOLOGY: linear | | | | | |
| | CLONE: HUMGS06499 | | | | | |
| | SEQUENCE DESCRIPTION: | BV 1 6 1 6 B 6 6 1 | | | | |
| 45 | GATCHTGGAT NTAGAAGAGG TTTTTCCAAG CTGACATTGC | | | | | 60 |
| | ACTGTCAGCG TNTTAGCTGA | | | | | |
| | GTGGTNNGCN | | | ummino | | 190 |
| 50 | SEQ ID NO:5461 | | | | | |
| | • | | | | | |

| 5 | SEQUENCE LENGTH: 105 SEQUENCE TYPE:nucleic TOPOLOGY:linear CLONE:HUMGS06500 | acid | | | | |
|----|---|---------------------|--|------------------|---------------------|-----------|
| 10 | SEQUENCE DESCRIPTION: GATCCCGCCC ACTCAGAAAA GAAACAACTT TTGGAGAAAT | | | | ATCAAACACA | 60 105 |
| | SEQ ID NO:5462 | | | | | |
| 15 | SEQUENCE LENGTH:83 SEQUENCE TYPE:nucleic TOPOLOGY:linear | acid | | | | |
| | CLONE: HUMGS 06501 SEQUENCE DESCRIPTION: | | | | | |
| | GATCTTCTTC ACACCAAGCT | | TCCGAGAGTT | GTCATGAAGA | AAGTNCTNNT | 60 |
| 00 | CAATAAGNTT TTGGAATGTT | AAA | | • | | 83 |
| 20 | SEQ ID NO:5463 | | | | • | |
| | SEQUENCE LENGTH: 180 SEQUENCE TYPE: nucleic | acid | | | | |
| 25 | TOPOLOGY: linear | | | | | |
| | CLONE: HUMGS06502 | | | | | |
| | SEQUENCE DESCRIPTION: GATCAGGACA CGAGGAAGAG | TAAATGTGAG | ACAGTCAATG | TGACTTCTGC | GATAAACAGA | 60 |
| | TTTTTAAACC CCGAAATTTT | | | | | |
| 30 | CTGGCACTAT CTGTACCATC | ATACANCTGT | CTCACATTAA | AGCTATTTTC | CTTGGGCAAA | 180 |
| | SEQ ID NO:5464 | | | | | |
| | SEQUENCE LENGTH: 214 | | | | | |
| | SEQUENCE TYPE:nucleic | acid | | | | |
| 35 | TOPOLOGY: linear | | | | | |
| | CLONE: HUNGS 06503 | | | | | |
| | SEQUENCE DESCRIPTION: GATCATCTCC CCTGGCAACG | ጉር <u>እር</u> የተረተረዋ | *********** | CTTTCC1TCC | TC1CT1CTCC | 60 |
| | CCTACTGTTA ATATCACTAC | | | | | |
| 40 | TTCTCTTAAA ATNACCTTTG | | | | | |
| | TGCAATATAT ACANTAAAAN | | | | | 214 |
| | SEQ ID NO:5465 | | | | | • |
| 45 | SEQUENCE LENGTH: 186 | | | | | |
| | SEQUENCE TYPE: nucleic | acid | | | | |
| | TOPOLOGY:linear | | | | | |
| | CLONE: HUMGS06504 | | | | | |
| 50 | SEQUENCE DESCRIPTION: GATCTGTCCA GGGAGGTGGC | TC11010#00 | CC 4 TC TCCCT | TAGGGACTOT | ACTCACCACT | en |
| | TIME CALL STREET, MARKET STREET | r remainaté l'iélé | TOT. A. L. | I ALTITUTAL AT 1 | At. 11. A191. A1. [| nu |

| | CCATTCTGTG CCACCTGTGG TGCCCTATGC CCCTGACTCT TGTAAA | | | | | |
|----|---|------------|----------------|------------|-------------|-----------|
| 5 | IUIAAA | | | | | 100 |
| 10 | SEQ ID NO:5466 SEQUENCE LENGTH:117 SEQUENCE TYPE:nucleic TOPOLOGY:linear CLONE:HUMGS06505 | acid | | | | |
| | SEQUENCE DESCRIPTION: GATCTTTGCT TCCTTNCTAT ANTTCTATAC TGTTGATTCG | | • | | | 60 117 |
| 15 | | | | | | |
| 20 | SEQ ID NO:5467 SEQUENCE LENGTH:309 SEQUENCE TYPE:nucleic TOPOLOGY:linear CLONE:HUMGS06506 SEQUENCE DESCRIPTION: | acid | | | | |
| | GATCCAAACC AAAGACTGTA | GAACCCTGGG | GTGTGGCTAA | CTGGCCCNTN | CNGCACCCGT | 60 |
| | AGCCAGGTCT TCCTGGCCCT | | | | | |
| 25 | GCTGAAGCTC CCACACTGTC | | | | | |
| 20 | CTTGATACTT ATTTATACGA | | - | | | |
| | CAGAATGGCT CTGCTGAGCC | | | | | |
| • | AGAGCCAAA | | 00.0.0.0.0.0.0 | 0.1 | | 309 |
| | | | | | | |
| 30 | SEQ ID NO:5468 | | | | | |
| | SEQUENCE LENGTH: 97 | | | | | |
| | SEQUENCE TYPE:nucleic | acid | | | • | |
| | TOPOLOGY: linear | | | | | |
| 35 | CLONE: HUMGS06507 | | | | | |
| | SEQUENCE DESCRIPTION: | | | | | |
| | GATCCCATAC CAGAAGATGA | GAAAAAAGAA | TAAGTGTTGC | CTTGTTTTGT | GTGTTCTAAA | 60 |
| | TACTITITIT AATGAAAAA | TGNTTTTTNG | AAATTTT | | | 97 |
| 40 | SEQ ID NO:5469 | | | | | |
| 40 | SEQUENCE LENGTH: 67 | | | | | |
| | SEQUENCE TYPE:nucleic | anid | | | • | |
| | TOPOLOGY: linear | acid | | | | |
| | CLONE: HUNGS06508 | | | | | |
| 45 | SEQUENCE DESCRIPTION: | | | | | |
| | GATCATCTAA ACTAAGTCCA | CCTCCCTAAT | TCTAGATATA | T1T1T1T1T1 | TAGAGNTCCA | 60 |
| | CCATAAA | UCIUCLIAAI | TOTAUNIAIA | IVIVIVIVIV | IVAVAULTORY | 60 67 |
| | CUNIAAA | | | | | 01 |
| 50 | SEQ ID NO:5470 | | | | | • |

| 5 | SEQUENCE LENGTH:72 SEQUENCE TYPE:nucleic TOPOLOGY:linear CLONE:HUMGS06509 SEQUENCE DESCRIPTION: GATCTTGGGA AGTATTCCCA AATTTTGGGA AA | | TCCTGGGCAC | AGTCTCCAAA | ATAAATTCTN | 60 72 |
|----|---|------------|------------|------------|------------|----------|
| 10 | SEQ ID NO:5471 SEQUENCE LENGTH:467 SEQUENCE TYPE:nucleic TOPOLOGY:linear CLONE:HUMGS06510 | acid | | | | |
| | SEQUENCE DESCRIPTION: GATCCCATGG CTTTCTTAC | | | | | |
| 20 | AGCCATCACT GTTTCAGCAC CGAGTGGTGG ACAACAGTGC CATGTCTATA AGAAGAATGG | CCTGGGGAAC | AGCCCATACC | ATCGGGCTCC | TCGCTNCATC | 180 |
| | GGACAGAAGA AAAAGGCGCT AGATTTGACT NCAACANCGT GTATTNAAGA CACNGTNCCC | GGTCCTCATT | GAGGNCAACG | GGGAACCCTN | TNGGNGACAN | 360 |
| 25 | TGGTGGGCCT TNGTTNAGAN | | | | TTTOOCHAUN | 467 |
| 30 | SEQ ID NO:5472 SEQUENCE LENGTH:327 SEQUENCE TYPE:nucleic TOPOLOGY:linear CLONE:HUMGSO6511 | acid | | | | |
| 35 | SEQUENCE DESCRIPTION: GATCTTAACT NTCTTGACTG TCCTCTGGGA AAGCAATTTC TGTNTTTACA TAGAGATAGA | TATCTATTTA | TCTACCAATC | CCCACTCACA | TATATATGTT | 120 |
| | ACATTGTGGG NTGGAGACCA TGTTTATACT GTTTAAGGTG NNNGNGGTTT AAATTTCACC | TTTATTTATN | • | | | |
| 40 | SEQ ID NO:5473 SEQUENCE LENGTH:70 | | | | | |
| 45 | SEQUENCE TYPE:nucleic TOPOLOGY:linear CLONE:HUMGSO6512 SEQUENCE DESCRIPTION: | acid | · | | | |
| | GATCAAGGAA CTTGTGCCTG CAATCCCAAA | TCTATAGATT | TTATTTCCCC | TGTACAAATA | AACTTGGCTG | 60 70 |

| 5 | SEQ ID NO:5474 SEQUENCE LENGTH:414 SEQUENCE TYPE:nuclei TOPOLOGY:linear CLONE:HUMGS06513 SEQUENCE DESCRIPTION | | | | | |
|---------------|---|---|---|---|--|--------------------------|
| 10 ' | GATCTTGCAA GACTAAAAT AATTGTCAAC AGCTGCTGG CACTGGGCAG TGAAGATGG GTGTGCTACC TGATAGCTCAAAGTTTATCT GNCACACAGG CAGGACATAG GCAGGTCAGG | GGCCATTAAG ATCTCGCTGG GACATGTTTC CAAAAGCCCA CCTNCTATTTG | TACGATGAGT ATAATAGGAC CTTGGACTGT ACTTTTTTGT | TTCCAGGCTG TTCTTTTTCC TCATCAGGAA TCCTGNTGNT | GAGGAGAAGA TGTCTTCTCT GCCATTTATC GCTTGCCTCT | 120 180 240 300 |
| 15 | TGATATTGNC NTGGGTNCT | | | | | 360 414 |
| 20 | SEQ ID NO:5475 SEQUENCE LENGTH:112 SEQUENCE TYPE:nucleic TOPOLOGY:linear CLONE:HUNGSO6514 SEQUENCE DESCRIPTION: | | | G.NG. 4.04.00 | | |
| 25 | GATCAACAAT NAGCATCAAA GGANGAGAAG CANGAAGTGA | | | | | 112 |
| 30 | SEQ ID NO:5476 SEQUENCE LENGTH:52 SEQUENCE TYPE:nucleic TOPOLOGY:linear CLONE:HUMGS06515 SEQUENCE DESCRIPTION: | | | | | |
| 05 | GATCATTCTT TTATAGAGCA | TATTTGCCAA | TAAAGCTTTT | GGAAGCCGGA | AA | 52 |
| 40 | SEQ ID NO:5477 SEQUENCE LENGTH:223 SEQUENCE TYPE:nucleic TOPOLOGY:linear | acid | · | | | |
| 40 | CLONE:HUMGS06516 SEQUENCE DESCRIPTION: GATCTAACTT TGCACTCTTT | | | | | 60 |
| 45 | ATTGTAGCCT CTGTTAACAC ACCCAAACTT GTGGAAGTAT TTACTAAAAT GAACTTGTTA | CATGTGTTAA | GTNCTCTGTC | TCTGTTTCTT | TGTTCATTTA | |
| | SEQ ID NO:5478 SEQUENCE LENGTH:144 | | | | | |
| 50 | SEQUENCE TYPE:nucleic | acid | | | | |

| 5 | TOPOLOGY:linear CLONE:HUMGSO6517 SEQUENCE DESCRIPTION: GATCCGGGGN AGCTGTATCC GATGAAACAC ACCTTTTTT TAAATGAAAA ACCTTTAAAG | TTAATAAGAA | | | | |
|----|--|--|--|--------------------------|--------------------------|------------|
| 10 | SEQ ID NO:5479 SEQUENCE LENGTH:117 SEQUENCE TYPE:nucleic TOPOLOGY:linear | acid | | | | |
| 15 | CLONE:HUMGS06518 SEQUENCE DESCRIPTION: GATCTTTTGA CGNNTATANA ATATATATTT TTAAGAGGCT | | | | | 60 117 |
| 20 | SEQ ID NO:5480 SEQUENCE LENGTH:168 SEQUENCE TYPE:nucleic TOPOLOGY:linear CLONE:HUMGS06519 | acid | | | | |
| 25 | SEQUENCE DESCRIPTION: GATCTTTCAT TCTCATGCAG TGATGGNACT TGNGACTTTC TGNACCACTT ACTTGAGCTT | CATTTTGGCG | CTATTACAAN | TAGGCACTAT | | |
| 30 | SEQ ID NO:5481 SEQUENCE LENGTH:395 SEQUENCE TYPE:nucleic TOPOLOGY:linear | acid | | | | |
| 35 | CLONE:HUMGS06520 SEQUENCE DESCRIPTION: GATCAGTTAT GAAGAAGGGA TNCTGCTAAA GAAAATCAGA | | | | | 60 120 |
| 40 | AAAAATGGAC GGGGCAGCTT CAAANCCTGA GGACACTGGG GAGGATAACC TATGCTNCTT CTCCCTNCCT TCAGATTATG TTNNNNGCAT CNNTTTNCAN | AATATATTCT TTTNCTCCTG TTACCTCTGA | ACCTGAAGAA TTAACCTGNA GTCTGTCCAA | GCAAGCTGCC AGATATCATT | CGTCCTCCTT GGGNTCAGAG | 240 300 |
| 45 | SEQ ID NO:5482 SEQUENCE LENGTH:89 SEQUENCE TYPE:nucleic | | | | | |
| 50 | TOPOLOGY: linear CLONE: HUMGS06521 | | • | | | |

| | SEQUENCE DESCRIPTION: |
|----|---|
| | GATCTTCCAG AGAAGGGAAC ATCTGTCACA GACAATGACT GTATCTGTNT AGATATTTCT 60 |
| | TATTTAATAA AGACGATTTG TCAGTTAAA 89 |
| 5 | ••• |
| | SEQ ID NO:5483 |
| | SEQUENCE LENGTH: 137 |
| | SEQUENCE TYPE: nucleic acid |
| 10 | TOPOLOGY: linear |
| | CLONE: HUMGS06522 |
| | SEQUENCE DESCRIPTION: |
| | GATCAGAAAT GCCTCCTTTA CCTACCAGAG CCTACAACAC TACCTGCCAC TAATAGTTAT 60 |
| | GTCACCCTCT TATTAATCAT CATCTAGCCC TAAGTCTGGN CTATNAGTGA CTACAAAAGA 120 |
| 15 | TTAGCTGAGT GAATAAA 137 |
| | SEQ ID NO:5484 |
| | SEQUENCE LENGTH: 250 |
| | SEQUENCE TYPE: nucleic acid |
| 20 | TOPOLOGY: linear |
| | CLONE: HUNGSO6523 |
| | SEQUENCE DESCRIPTION: |
| | GATCAGGGGA AGAATACCAA CCTGCATAAG TGTACTAANT CTACGTCTGG TTAATGTATG 60 |
| 25 | TACTCTCCTG GACTGAATGC AGTGTATAAT TCCTGTCTAC ANTAGAAGTG TGCCCCAGTT 120 |
| | CCACATTIGA TTACACATGI GAGATTIGCI GCTGTTGCAT ATAACACTAG GNTAATAGNI 180 |
| | TTGNATNCAT GCAGTCATAA AAATTGGAAT GAGAATTAAN CTGCAGGAAC ATTTGNACGN 240 |
| | TNTCTNCNCN 250 |
| 30 | SEQ ID NO:5485 |
| | SEQUENCE LENGTH: 117 |
| | SEQUENCE TYPE:nucleic acid |
| | TOPOLOGY:linear |
| 85 | CLONE: HUNGSO6524 |
| | SEQUENCE DESCRIPTION: |
| | GATCAGAACC AGAAAGAACT NTGCTTNACC GAGAAAATAT CTAAACATCG AAAAACTTAA 60 |
| | ATATTATGGA AAAAAACAT TGCAAAATAT AAAGTAANTA AAAAAAGGAA GGANCNN 117 |
| 0 | SEQ ID NO:5486 |
| | SEQUENCE LENGTH: 118 |
| | SEQUENCE TYPE: nucleic acid |
| | TOPOLOGY: linear |
| 5 | CLONE: HUMGS06525 |
| ~ | SEQUENCE DESCRIPTION: |
| | GATCTAATGC AGGATGTCAG ACTININICT ATCCAGGAAT AAAACCAGIT ATGCCAGAAG 60 |
| | TAACTATTAT NCACCINICI CCTACIGAAT TAAAATACTA TCAGTIGTAT ATNAAATN 118 |
| 0 | SEQ ID NO:5487 |

| 5 | SEQUENCE LENGTH: 118 SEQUENCE TYPE: nucleic acid TOPOLOGY: linear |
|----------|---|
| | CLONE:HUMGS06526 SEQUENCE DESCRIPTION: GATCACAGTT TTCAGCANNT CAGACATGGT CTTGNGTAGT TGTTCAACAG TGTTTGCCAG 60 CTACAGAGGA AANGNCAGAC TCACAGAAGG GTGTCATTTA GAAGAAAGAA CACTAATN 118 |
| 10 | |
| | SEQ ID NO:5488 |
| | SEQUENCE LENGTH: 120 |
| | SEQUENCE TYPE: nucleic acid |
| 15 | TOPOLOGY: linear |
| 73 | CLONE: HUNGSO6527 |
| | SEQUENCE DESCRIPTION: |
| | GATCCTCAAC GAAATCAATC TCACAATAGG NAAGGAAAAG NCAATACAAG GAAGAAACCA 60 |
| | TTGAGAAGAT GCAGAATAAA GTAATCTTAT ATACANGCTT TGATTAAAAC TTGAAACAAA 120 |
| 20 | CEO ID NO. 5400 |
| | SEQ ID NO:5489 SEQUENCE LENGTH:111 |
| | SEQUENCE TYPE: nucleic acid. |
| | TOPOLOGY: linear |
| 25 | CLONE: HUMGS06528 |
| | SEQUENCE DESCRIPTION: |
| | GATCGCCATC ANTIGGGTAG TGACAGNGTA TTAATTTGCT TATACANTIN CTTTACTNTC 60 |
| | UTITITIECT TTCTGGAGCA TCACATCCTC CTCCTCTCTC TTTCACALANCE |
| | 111 |
| 30 | SEQ ID NO:5490 |
| | SEQUENCE LENGTH: 422 |
| | SEQUENCE TYPE: nucleic acid |
| | TOPOLOGY: linear |
| 35 | CLONE: HUMGS06529 |
| | SEQUENCE DESCRIPTION: |
| | GATCCTACAG ATACAAGTTG CTAAANGGGC ATATCAACAG TCCAACAAAT AAAGAAGATG 60 |
| | CUIGGAITGA GCAIGATGIT IGGAGAIGGA GAITTAIGIG ICICIGGGAI IGIGGGITGG 120 |
| 10 | ANIACTEGIC TGTGGCTGIN ACANCIATIC CICTGTGAGI GACTCTTGCA TGGAGAGATT 180 |
| , | CALATATTUA GGCAGCTAGG ATTGTTCCTT CTACTGGGAC ATACACGATT GANTTTNCTG 240 |
| | AATANGGGTA GTTAANCATT GTATGTTACH CNCACTTTTG TGCTTTTCCT CCATTGTGCC 200 |
| | MIAITAACGC TCTTTCGCNT CTGNGAGAGT CTGAGTTAGC TGGTGGAGCG CCAAATACAA 380 |
| | CIGGILGICE GIGIGINETT TECETTTGTE ANTGGTTTGE CACATEAGTT TETENTETAT 420 |
| 15 | GN 422 |
| | |
| | SEQ ID NO:5491 SEQUENCE LENGTH:192 |
| | |
| o | SEQUENCE TYPE:nucleic acid TOPOLOGY:linear |
| | • o• onogi. iidagi |

| | CLONE: HUMGS06530 SEQUENCE DESCRIPTION: |
|----|--|
| 5 | GATCCCCCAG ATACCAGCTC TTCTGGNTAT ACACAGACCA GCTATAATTN GCTAAGCATA 60 |
| J | AANTATTNCA GTGTATTAGC CAGCNGTGGC TCCAGAGTCT GTGCCCTTGA CCACCGTGCC 120 |
| | CAACTGTTTC ACATGCTGTG TTTGGTAGTT INNCCTAGTG CTCTCCTTAA TAATGGTGGT 180 GTNTAGCAAA NN 192 |
| 10 | SEQ ID NO:5492 |
| | SEQUENCE LENGTH: 108 |
| | SEQUENCE TYPE:nucleic acid |
| | TOPOLOGY:linear CLONE:HUMGS06531 |
| 15 | SEQUENCE DESCRIPTION: |
| | GATCATTAGG TCAGAGTTTA CACGNOCTCT CCTCACTAGA ATGGAGGAGA |
| | ATCACCCNCT TGAAGGACAT TATTACTACT GNAANTINGA ACAAACIN 108 |
| 20 | SEQ ID NO:5493 |
| | SEQUENCE LENGTH: 329 |
| | SEQUENCE TYPE:nucleic acid TOPOLOGY:linear |
| | CLONE: HUNGSO6532 |
| 25 | SEQUENCE DESCRIPTION: |
| 23 | GATCCATCCA GAACAGCGGT ATCTGAACCC CACCGGATAG TGGGTGCCTC |
| | CCTACCAGAG GCTCCANAGT TGAGCTTGTC CNTTATCTAG AAACATGTGA AGATGCCCAA 120 |
| | GAGCCTGGAG GCACTGCTGT CCTTCCTNCA GAAACAGTTT CTCCTCCTNC CCTCAGCCTT 180 |
| | GIGGCCANII CUNCTICACA TGAAGCCCCT TGGCATTTNC TNGGGAAGGG ACTNGCCTCC 240 |
| 30 | TACTTGCTGT TAGGGCAGGA AGGGGCAAAN GGNNGACTTT GGGTAAGTAA TCTGGGGGGT 200 |
| | TTAGATGGGN AGCANTAAGC CAGCTNGGN 329 |
| | SEQ ID NO:5494 |
| 35 | SEQUENCE LENGTH: 125 |
| | SEQUENCE TYPE:nucleic acid |
| | TOPOLOGY: linear |
| | CLONE: HUMGS06533 |
| 40 | SEQUENCE DESCRIPTION: |
| | GATCATGCTT GTNTNAGGCA ATCATGGTGG CATCACCCAT AAAGGGAACA CATTTAACTT 60 |
| | TTTTTNCTCA TATTTTAAAT TACTACANGA TTATTAAAGA TAAAATNATT TGAAAAACTC 120 TTAAA 125 |
| 45 | SEQ ID NO:5495 |
| 45 | SEQUENCE LENGTH: 337 |
| | SEQUENCE TYPE: nucleic acid |
| | TOPOLOGY: linear |
| | CLONE: HUNGS06536 |
| 50 | SEQUENCE DESCRIPTION. |

| | GATCATGAGA CTGAAATTGG | TCAGAATTGT | GTCCAGAATG | TGCTCAGCTA | ATTCAGTATT | 60 |
|-----|------------------------|------------|------------|------------|------------|-----|
| | CTTCCCCATT CTGGGTTGGA | GTTTACTGCA | GAGTAATTCT | TACAGTGCTG | ATGTCAAGAC | 120 |
| | TGTTACTGTT CTTCGACTTT | GATTCCTTGC | TCATGACATG | AGTAGGGTGT | GCTCTTCTGT | 180 |
| 5 | CACTTCACAC AGACCTTTTG | CCTTTTTTAG | CTGCAAGTCA | AGGACTAGGT | TGATGATGCN | 240 |
| | CATGACCTGT AATTGTAAAG | ANGCTTGGNC | ATCTGCAAAT | GATATTNAGA | CCATCTNGGC | 300 |
| | TTGTGCTTNN ATTCAAACTA | ATGTGAACCA | ATANGTN | • | | 337 |
| | | | | • | | |
| 10 | SEQ ID NO:5496 | | | | | |
| | SEQUENCE LENGTH: 194 | | | | | |
| | SEQUENCE TYPE: nucleic | acid | | | | |
| | TOPOLOGY:linear | | | | | |
| | CLONE: HUNGS06537 | | | | | |
| 15 | SEQUENCE DESCRIPTION: | | | | | |
| | GATCCATGAT GATAATTAAG | AGAAGAGAAA | AAAAGATATT | ATTTTTGTNA | GGACAAACCA | 60 |
| | TTGTAGGTTT TTAGCAATGT | GTATCTGTGT | GTCCCTCACA | CCTTTTCCTA | TTCTACTTTT | 120 |
| | TTTTCCTTTT TTTAAAAATA | TTATGTACTA | TATTTTNAGT | CTCAAACACA | CTATATATTA | 180 |
| 20 | TATATNINNN NNNN | | | | | 194 |
| | | | | | | |
| | SEQ ID NO:5497 | | | | | |
| | SEQUENCE LENGTH: 207 | | | | | |
| | SEQUENCE TYPE:nucleic | acid | | | | |
| 25 | TOPOLOGY: linear | | | | | |
| | CLONE: HUMGS06538 | | | | | |
| | SEQUENCE DESCRIPTION: | | | | | |
| | GATCATTTCT AGGCAAAATT | | | | | 60 |
| 30 | TCTTTATTTN ACTAGAAATG | | | | | |
| | CATTTAGCTG TNTTCATATA | | GIATTITIG | TITGGATTGT | AAAAAGITUA | |
| | CATAATAAAC GATGGTTGTG | AIGIAAA | | | | 207 |
| | SEQ ID NO:5498 | | | | | |
| 0.5 | SEQUENCE LENGTH: 320 | | | | | |
| 35 | SEQUENCE TYPE:nucleic | acid | | | | |
| | TOPOLOGY: linear | 40.4 | | | | |
| | CLONE: HUMGS06539 | | | | | |
| | SEQUENCE DESCRIPTION: | | | | | |
| 40 | GATCCAAGTG ACCAAAGGAG | TTCAAGGCCC | AAAATTTAGT | TATGCTGGAT | TAATTCTGAG | 60 |
| | AGTAACAAGC ACATAGATTA | | | | | |
| | AGCATCTAAC ACTAATGGTG | | | | | |
| | AGTGAAGACA GATGAAAGCC | | | | | |
| 45 | AAGGATATAG GGGTGTGTAT | | | | | |
| 45 | NTNTAGGTAT GGTTGTTGGN | | | | | 320 |
| | SEQ ID NO:5499 | | | | | |
| | SEQUENCE LENGTH: 115 | | | | | |
| 50 | SEQUENCE TYPE:nucleic | acid | | | | |

| | · | |
|----|---|----|
| | TOPOLOGY: linear | |
| | CLONE: HUMGS06540 | |
| | SEQUENCE DESCRIPTION: | |
| 5 | GATCTGTCTT GGTCGTTTGT GTTATAAAAC CAAAGTTCTC TACAGACTTT ATTTTTGTAC 6 | 'n |
| | AATATCATTT TGTAACTTTT TACAAATAAA AACTCATTTC TATTGCTCTC TGAAA 11 | |
| | | • |
| | SEQ ID NO:5500 | |
| 10 | SEQUENCE LENGTH: 314 | |
| | SEQUENCE TYPE:nucleic acid | |
| | TOPOLOGY:linear CLONE:HUMGSO6541 | |
| | | |
| | SEQUENCE DESCRIPTION: | |
| 15 | GATCACTTAC GGAGAAACAG GAGGAAATAG CCCTGTCCAG GAGTTCACTG TGCCTGGGTG 6 | 0 |
| • | CAAGTCTACA GCTACCATCA GCGGCCTTAA ACCTGGAGTT GATTATACCA NNACTGTGTA 12 | 0 |
| | TGCTGTCACT GGCCGTGGAG ACAGCCCCGN AAGCAGCAAG CCAATTTCCA TTAATTACCG 18 | 0 |
| | AACAGAAATT GACAAACCAT CCCAGATGCA AGTGACCGNT GTTCAGGGNA GCAGCATTAG 24 | 0 |
| 20 | TGTCAAGTGG CTGCCTTCAA GTTCCCCTGT TACTGGTTAC AGNGTANCCN NCGCTCCCNA 300 AANTGGGCCA GGAN |) |
| | AANTIGOUCLA GGAN . 314 | 1 |
| | SEQ ID NO:5501 | |
| | SEQUENCE LENGTH: 312 | |
| 25 | SEQUENCE TYPE:nucleic acid | |
| | TOPOLOGY: linear | |
| | CLONE: HUMGS06542 | |
| | SEQUENCE DESCRIPTION: | |
| | GATCTGGGTT TAGAGTGTGT ATGATTAATA AATATACCTT TCCTCTTTTC AGGGAAAATA 60 | ì |
| 30 | ACAACCACCC NTACTGATAG TTGGGAAAAG AAGATTGGGT TATTTTNCCA TATCATTAG 120 | |
| | CTGGAAGTGA CATTTAAAAG CACCCTGCAT CACTAGTAAT AGTGTATTTN NCTATTCTGC 180 | i |
| | CCTTGTAATC GGTGTCCCTG TAAAACANTC CCCACAGATT ACTTTCAGAA ATAGATGTAT 240 | i |
| | TTCTCTNCGT AAGGGCCAGG TTTATTTCCT CCTTTTTTGN GATNNNNGGN GGAAANTGCT 300 | i |
| 35 | GETTGCACAT TN 312 | |
| | | |
| | SEQ ID NO:5502 | |
| | SEQUENCE LENGTH: 217 | |
| | SEQUENCE TYPE: nucleic acid | |
| 40 | TOPOLOGY: linear | |
| | CLONE: HUMGS06544 | |
| | SEQUENCE DESCRIPTION: | |
| | GATCATCCTG TAAACATTTT ATCATGTATT AATCATCCCT GCCTGTGTCT ATTATTATAT 60 | |
| 45 | TCANATCTCT ACGCTGGAAA CTTTCTGCCT CAATGTTTAC TGTGCCTTTN NTTTNGCTAG 120 | |
| | TATGTGTTGT TGAAAAAAA AACATTCTCT GCCTGNGTTT TAATTTTGGT CCAANGTTAT 180 | |
| | TTNAATCING TACAATTAAA AGCITTITGCC TATCAAA 217 | |
| | SEQ ID NO:5503 | |
| 50 | SEQUENCE LENGTH: 334 | |
| | | |

| | SEQUENCE TYPE: nucleic acid TOPOLOGY: linear | |
|----|---|-----|
| _ | CLONE: HUMGS06545 | |
| 5 | SEQUENCE DESCRIPTION: GATCAGGTTG AATGAATGGA ACTCTTCCTG TCTGGCCTCC AAAGCAGCCT AGAAGCTGAG 6 | • ^ |
| | GGGCTGTNTT TGAGGGGACC TCCACCCTGG GGAAGTCCGA GGGGCTGGGC NAAGGGGTTTC 12 | |
| | TGACGCCCAG CCTGGAGCAG GGGGGCCCTG GCCACCCCCT GTTGCTCACA CATTGTCTGG 18 | |
| | CAGCCTGTGT CCACANTATT CGTCAGTCCT CGACAGGGAG CCTGGGCTCC GTCCTGCTTT 24 | |
| 10 | AGGGAGGCTC TGGNAGGAGG TCCTCTCCCN NATCCCTCCA TCTTGGGGCT CCNCCAACCT 30 | |
| | NTGCACAGCT CTGCGGGNGC TGAGATATNA ATTN 33 | |
| | SEQ ID NO:5504 | |
| 15 | SEQUENCE LENGTH: 87 | |
| | SEQUENCE TYPE: nucleic acid | |
| | TOPOLOGY: linear | |
| | CLONE: HUMGS06546 | |
| 20 | SEQUENCE DESCRIPTION: | |
| | | 0 |
| | TATTAAAATI GUACIIITAI IIINAAA | 7 |
| | SEQ ID NO:5505 | |
| 25 | SEQUENCE LENGTH: 323 | |
| | SEQUENCE TYPE:nucleic acid | |
| | TOPOLOGY: linear | |
| | CLONE: HUMGS06547 SEQUENCE DESCRIPTION: | |
| 30 | GATCCATCCC ATGATTTGTN CCTGTCTGAG GCATAGAGGC AGGCAAGCCG TGGATTTTNC 6 | ^ |
| | ACATGGTGAC TITCCCACTG TGCCATGATA CAGTGTGCAT CITATAGCAG TGCCTTTNTG 12 | _ |
| | TCAGGGTCTC TGCTGGCAGT CTAGACCTTT TGGGCAGAAA GGAGCTTCAA ATGGCTGTGA 18 | |
| | TAAGGAATAT TAAAAATNGT GTTTCTACTT TAATTGTATT GGCTGTTCAT GTATGTAGGA 24 | |
| 35 | GTTAAAATAG GCCAAACTGG AGAAATAAGC GCATTCTGTC CACCANAAAN GTGGNTTGGN 30 | |
| | TGGTNNNTGT NNGNTTNGGN GGN 32 | 3 |
| | SEQ ID NO:5506 | |
| | SEQUENCE LENGTH: 90 | |
| 40 | SEQUENCE TYPE:nucleic acid | |
| | TOPOLOGY:linear | |
| | CLONE: HUMGSO6548 | |
| | SEQUENCE DESCRIPTION: GATCAAGTTG CCATGAAAAA CCATCTACTA TATGTNAGAC ATGACATTCT NTTTCTCTCC 6 | _ |
| 45 | | |
| | | J |
| | SEQ ID NO:5507 | |
| | SEQUENCE LENGTH: 102 | |
| 50 | SEQUENCE TYPE: nucleic acid | |

| | TOPOLOGY:linear CLONE:HUMGSO6549 SEQUENCE DESCRIPTION: | |
|----|---|-----------|
| 5 | GATCTTACTT TCTTGCTGCT TTTCCAACTA TAATCATTTT GCTCTTGCTT TAACAAAAGN NGNGGCACAG NAATTTAGTA AATTTGTGTA ATAACATTTA AA | 60 102 |
| | SEQ ID NO:5508 SEQUENCE LENGTH:64 | |
| 10 | SEQUENCE TYPE:nucleic acid | |
| | TOPOLOGY: linear | |
| | CLONE: HUNGS06550 | |
| | SEQUENCE DESCRIPTION: | |
| 15 | GATCTCACCA CTGCACTATA GCCTGGGCGA CAGAGCAAGA CTCCCGCTCC AAAAAANGGA | 60 |
| | GAAA | 64 |
| | SEQ ID NO:5509 | |
| 00 | SEQUENCE LENGTH: 360 | |
| 20 | SEQUENCE TYPE:nucleic acid | |
| | TOPOLOGY: linear | |
| | CLONE: HUMGS06551 SEQUENCE DESCRIPTION: | |
| | GATCCACAAA TCGCTAGGAA TGTGTATACT CTGGGTAGTA AGTTTGTAGT ATTAGAAGGT | |
| 25 | TTAATGACAA GTATTTGAAG AGCTGAAGTT AAGTGTTGGG AGGCCATCCC TTATGAAGGA 1 | 60 |
| | CAATGAATGG CAAGTAAAAG ACCAAGTTCT GTTCCTGGGT CCATTAATTT AGTTAAAANG 1 | 20 |
| | GCAAAGTTCT TTCAGCACAC ATATCTGCAT GCAGTCACGT GCTGCCTAAG GNTGCTTCAT 2 | An |
| | TCAACANTGA GCCTCACAGC CGTGCTACAC ANTAGGATAN TACTGTATTT TTNCTGTACC 3 | 100 |
| 30 | TTTTAACATT GTGTTACAAT GGCCTACAAG AGGCTTGTGT GGNTGGCTTT NNNTGTGGGN 3 | 60 |
| | SEQ ID NO:5510 | |
| ٠ | SEQUENCE LENGTH: 357 | |
| 35 | SEQUENCE TYPE: nucleic acid | |
| | TOPOLOGY: linear | |
| | CLONE:HUMGS06552 SEQUENCE DESCRIPTION: | |
| | GATCATCCTC ATTACCACAC ACATTTTNAA AAATGAATG | •- |
| 40 | GTTCACATCT CTGCATACAC TACAGATATA AGTGCATAAT CATTCATATA NACATCTGGT 1 | 60 |
| | AGGTATTCTG TAAAACTGTG TTTACTTTAG TGCATGTNAT TGTCATGTNA TGATGTGACT 1 | 2U 00 |
| | GGGGTGTTTC TTTGTGCATG AAACTTTGCT TCTNCACAGA NTTAGATTAC TGCTCTCTCT 2 | 0U 4∩ |
| | ATATHGANCT NCATATACAG CGTTTTCTTG TTATCAGCCC CCCNAAGTCT GGGATGCCCG 3 | 70 00 |
| 45 | GTGGTTGGTG VTCACATORG AGRICUMES TO SOME THE SAME TO SOME THE SAME | 57 |
| | SEQ ID NO:5511 | |
| | SEQUENCE LENGTH: 138 | |
| | SEQUENCE TYPE:nucleic acid | |
| 50 | TOPOLOGY: linear | |

| 5 | CLONE:HUMGSO6553 SEQUENCE DESCRIPTION: GATCTTTTCA GCTGCTATTT TGGTTGTAAT GGTTGGGTTT TTTGTACACA GTAAGAAA | | | | | |
|----|--|------------|------------|------------|------------|------------------|
| 10 | SEQ ID NO:5512 SEQUENCE LENGTH:167 SEQUENCE TYPE:nucleic TOPOLOGY:linear CLONE:HUMGS06555 | acîd | · | | | |
| 15 | SEQUENCE DESCRIPTION: GATCCCAGCA GGGNTTCTGC NTCTGCCTGG GGGAAAGGGC CCTGGAAGGG GTGATTGGTT | AGCCAGGCAG | AGGCCCAGTG | TCTAGTAGGC | | 60 120 167 |
| 20 | SEQ ID NO:5513 SEQUENCE LENGTH:159 SEQUENCE TYPE:nucleic TOPOLOGY:linear CLONE:HUMGS06556 | acid | | | | |
| 25 | SEQUENCE DESCRIPTION: GATCCCTTGG AGCACCTTNA CCTTATCCCT TATGTNCCCC TTTGTNCTGA CTGCTGGNNG | ATTAAAGGAA | TTTCAAAAGA | | | 60 120 159 |
| 35 | SEQ ID NO:5514 SEQUENCE LENGTH:167 SEQUENCE TYPE:nucleic TOPOLOGY:linear CLONE:HUMGS06557 | acid | | | | |
| 40 | SEQUENCE DESCRIPTION: GATCTGGACA AATGGCAAAT NAAAACTAAA CANTTATAAA CCAGCTGCGA GCAGTATTTA | TGTATCTGGG | AAGCAAAGGT | ATTCATANTA | | 60 120 167 |
| 45 | SEQ ID NO:5515 SEQUENCE LENGTH:97 SEQUENCE TYPE:nucleic TOPOLOGY:linear CLONE:HUMGS06558 | acid | • | | | |
| 50 | SEQUENCE DESCRIPTION: GATCGTCCCC CTTTNTGGGC CGCCACTATC TGTTTAATAA | | | GGGTGGGCTG | AGGCCATTNC | 60 97 |

| | SEQ ID NO:5516 SEQUENCE LENGTH:225 SEQUENCE TYPE:nucleic | acid | | | | |
|----|--|------------|------------|---------------|------------|-----------|
| 5 | TOPOLOGY: linear | 8014 | | | | |
| | CLONE: HUMGS06559 | | | | | |
| | SEQUENCE DESCRIPTION: | THECOTOCCE | 1000011171 | CTC+TTCCC+ | OTCOTCCTNO | 60 |
| | GATCCTCCGG AAGTAGTCTC CTCTAGGGTG CAGTGTCCGT | | | | | 60 120 |
| 10 | GAGAAACTTG GGAAGAAGAG | | | | | |
| | GAAGNGAGAG TNTGAGTNTG | | | | Oddonina | 225 |
| | | | | | | |
| | SEQ ID NO:5517 | | | | | |
| 15 | SEQUENCE LENGTH: 340 SEQUENCE TYPE: nucleic | | | | | |
| | TOPOLOGY: linear | aciu | | | | |
| | CLONE: HUMGS06560 | | | | | |
| | SEQUENCE DESCRIPTION: | | | | | |
| 20 | GATCATTAAT AAAGCTTTTC | TTGGTTCCTT | CAGTGGTGTT | GGTAGTAAAA | TGGAAGGNGT | 60 |
| | CTTGCTGCAG GTAACTAATG | AAGANGTGGT | CAACCACAGA | GTCTTCAAGA | AATAAGAAAT | 120 |
| | TCTGTACCAN CTGAAAGTAG | TGCTTGTTGG | TGCCTTCNTT | TAAAAAGCAC | TCTTTTAAAT | 180 |
| | AAAAGGGAAA TGTTTTCTGA | | | | | |
| 25 | TACAANNTGA GTGTTGTNTG | | | TTGGCTAGNG | AGNTAAATGN | |
| | GTCANGTTTT ANCTAGGTTT | TNGTGAGTNG | NCAGGTTTNN | | | 340 |
| | SEQ ID NO:5518 | | | | | |
| | SEQUENCE LENGTH: 330 | | | | | |
| 30 | SEQUENCE TYPE:nucleic | acid | | • | | |
| | TOPOLOGY: linear | | | | | |
| | CLONE: HUMGS06561 | | | | | |
| | SEQUENCE DESCRIPTION: | 0001010001 | 000100000 | 0 + 1 CTCCTCC | 110100000 | |
| 35 | GATCAAAGCC AGTNTTAAAT GAAGGAAGGG TTGGCGTGGC | | | | | |
| | AGCTCTCTTC ACTGACCTCT | | | | | |
| | CCCCTGACTG CATGTGGAAG | | | | | |
| | TAAACCTGGG CAATTTTGTT | | | | | |
| 40 | TCCCTCATTC TTTTNTTTTT | GAAAAAAGAN | | | | 330 |
| | SEQ ID NO:5519 | | | • | | |
| | SEQUENCE LENGTH: 111 | | | | | |
| | SEQUENCE TYPE:nucleic | acid | | | | |
| 45 | TOPOLOGY: linear | | | | | |
| | CLONE: HUMGS06563 | | | | | |
| | SEQUENCE DESCRIPTION: | | | | | |
| | GATCTCATGA TGATTCANAC | | | | | 60 |
| 50 | ATAACATATA TNAGAATACA | NCTTGCCTAT | TTCCAGAAAA | TCTGTATATT | N | 111 |

| | SEQ ID NO:5520 | |
|----|--|----------|
| | SEQUENCE LENGTH: 130 | |
| 5 | SEQUENCE TYPE:nucleic acid TOPOLOGY:linear | |
| | CLONE: HUMGS06564 | |
| | SEQUENCE DESCRIPTION: | |
| | GATCAGCTTA CTGAAAAGAA GCCTCCNNAG TATTCCAAAT ACAGATTACA TCCAGCTGCT | 61 |
| 10 | TAGTGAAATT GCCAAGGNAC AAGGNTTTAA TATAACATAT TTGGATATAG NTGAACTGAG | 120 |
| | CGNCAATGGN | 130 |
| | SEQ ID NO:5521 | |
| | SEQUENCE LENGTH: 113 | |
| 15 | SEQUENCE TYPE: nucleic acid | |
| | TOPOLOGY: linear | |
| | CLONE: HUMGS06565 | |
| | SEQUENCE DESCRIPTION: | |
| 20 | GATCHACAAT NTGAATATGT GTTACTTAAT AAGGCTAGGC TGGCCATCAG INGCTTANTT | |
| | CAGATGTGTC ACTAAATTTC CCNTCTAGAT GGTCCTTGAG CAAAACTTAA TAN 1 | 13 |
| | SEQ ID NO:5522 | |
| | SEQUENCE LENGTH: 271 | |
| 25 | SEQUENCE TYPE:nucleic acid | |
| | TOPOLOGY: linear | |
| | CLONE: HUNGS06566 SEQUENCE DESCRIPTION: | |
| | | |
| 30 | GATCATCACA GITTGAGITT GACCCCAATG CCAGGATGGI GACACACATA ITAAAGAGIA (ACAGCIGGIT ACAITGCIAG GCGAGATAGG GGGAAGACAG ATAIGGGIGI ITITAATAAA 1 | 50 22 |
| | TCTAATAATN ATNCATCTAA TGTATTATGA GCCAAAATGG NTAATTTTTC CTGCATGTTC 1 | 20 |
| | TGTGNNTGTN GAAGATGAGC CTTGCAGATA TCTGCATGTG TCATGNNGAA TGNTTCTGGA 24 | 40 |
| | ATNOTTNACT TOOTNITTOOL NEEDOLOGOON | 71 |
| 35 | _ | - |
| | SEQ ID N0:5523 | |
| | SEQUENCE LENGTH: 126 | |
| | SEQUENCE TYPE:nucleic acid TOPOLOGY:linear | |
| 10 | CLONE: HUNGS06567 | |
| | SEQUENCE DESCRIPTION: | |
| | GATCTCACTT TCCCCTTGTG CCCTACGAAG CCATGGGAGT CCCACGG | |
| | CATTAACGAC IGITTITITI TITTITITITA AAAAAATGGN GITNIIGGGN GGGGNAAINC 12 | 30 |
| 5 | ACANAN 12 | |
| | SEQ ID NO:5524 | |
| | SEQUENCE LENGTH: 156 | |

55

50

SEQUENCE TYPE: nucleic acid

| | TOPOLOGY:linear CLONE:HUMGSO6569 SEQUENCE DESCRIPTION: | • | | | |
|----|--|-----------------|-------------|--|-----|
| 5 | GATCACGGGA ATGCTGCTGG AGATAG. | ACAA CTCTNAGTTG | CTGCACATNT | TAGAGTCCCC | 60 |
| | CGAGTCTCTC CGCTCCAAGG TGGATG | | | | |
| | GAAAGAAGCT GCCCAGAAGG TGGGCG | CTGT TNNNNN | | | 156 |
| | SEQ ID NO:5525 | | | | |
| 10 | SEQUENCE LENGTH: 133 | | | | |
| | SEQUENCE TYPE: nucleic acid | | | | |
| | TOPOLOGY:linear | | | | |
| | CLONE: HUMGS06571 | | | | |
| 15 | SEQUENCE DESCRIPTION: | | TOTOGOTO AN | T | |
| | GATCCTTCTA GACCAAGGAC CCATTG | | | | 60 |
| | TGCTCCTTCC AAA | MCC INGINATALA | ACIUAAAAAA | INNIUNI | 133 |
| | | | | | 100 |
| 20 | SEQ ID NO:5526 | | | | |
| | SEQUENCE LENGTH: 156 | | | | |
| | SEQUENCE TYPE: nucleic acid | | | | |
| | TOPOLOGY: linear | | | | |
| 25 | CLONE: HUMGS06572 | | | | |
| | SEQUENCE DESCRIPTION: GATCCCTGCT TCATAGATTT GCATCAT | ማብ ነርባነተነኛቦም | CTALAICIAA | C1C1 *1 ***1* | 60 |
| | GGGACTAGGA AATATTTATC TTTCCA | | | • | 120 |
| | CTTTGAAGGA AAGTTTAATT ACATTG | | UNITINUTI | dollwoolin | 156 |
| 30 | | | | | |
| | SEQ ID NO:5527 | | | | |
| | SEQUENCE LENGTH:63 | | | | |
| | SEQUENCE TYPE:nucleic acid | | | | |
| 35 | TOPOLOGY: linear | | | | |
| | CLONE: HUMGS06573 | | | | |
| | SEQUENCE DESCRIPTION: GATCCTAGCT GCAGATTGCA TCCCACA | . ATC | | TUCATATING | 60 |
| | AAA | MIG CONGANIANI | MANAIMANI | INUALALINU | 63 |
| 40 | | | | | 00 |
| | SEQ ID NO:5528 | | | | |
| | SEQUENCE LENGTH: 207 | • | | | |
| | SEQUENCE TYPE: nucleic acid | | | | |
| 45 | TOPOLOGY: linear | | | | |
| | CLONE: HUMGS06574 | | | | |
| | SEQUENCE DESCRIPTION: | **** ********* | 0911000010 | ጉ ተመ | 00 |
| | GATCNATGGT GTGACTCAAG CTCCNCC ACTTGGAGTT GTCTGTAATA ATCTNGA | | | | |
| 50 | ACCINATORO TROCORETT CATATO | | | | |

| | CATCCCTGTN AAGAGAGCGT TGNCNNN | 207 |
|----|---|------------|
| 5 | SEQ ID NO:5529 SEQUENCE LENGTH:190 SEQUENCE TYPE:nucleic acid TOPOLOGY:linear | |
| 10 | CLONE:HUNGSO6576 SEQUENCE DESCRIPTION: GATCTTGCAC ATGAAGCTAC AAAACTGGTA AGAAACAAAT GGCACATGTG NTGGGAATGG AAGTCAACCT TTTTGAATTT TTCAAATGTA AGTCAGTCTG GAAAATCCCA GTAAATTGGT ATATTGTTT TGGGTTATTT TTGAAGACCT CTTTTAAAAT TTGCCTAAAA TAAATNCTCG GTATGCTAAA | 120 |
| 15 | | 130 |
| 20 | SEQ ID NO:5530 SEQUENCE LENGTH:341 SEQUENCE TYPE:nucleic acid TOPOLOGY:linear CLONE:HUNGS06577 | |
| | SEQUENCE DESCRIPTION: GATCCGCCGC CAGAAAGGTT ATGCATCATG TGCCACAGCC TCCAAGGTGC CCATCATGGA ATNTCGTGGG GGCTGTGGGC CNANTGCTGC CAGCCCACCC GCAGCAAGCG NCGGAAATAC | 60 120 |
| 25 | GTCTTCCAGT GCACGGNTGG CTCCTCGTTT GTAGAAGAGG TGGAGAGACA CTTAGAGTGC | 180 |
| | GGCTGCCTCG CGTGTTCCTA AGCCCCTGCC CGCCTGCNTG CCACCTCTNG GACTCCAGCT | |
| | TGATGGAGTT GGGACAGCCA TGTGGGACCC CCTGGTGATT CAGCATGAAG GANATGAAGC : TGGAGANGAA GGTAAAGGAG GAAGAGANTA TTANGTATTT N | 300 341 |
| 30 | SEQ ID NO:5531 SEQUENCE LENGTH:144 SEQUENCE TYPE:nucleic acid | 341 |
| 35 | TOPOLOGY:linear CLONE:HUMGS06578 SEQUENCE DESCRIPTION: GATCTNTTCC AACAGTTCTN TGTAAACCAA ATGCTATTTT TCANTGCATT TGGACTGCTG ACCATTTAAA AGCAGCCTAT GATTGCTTCT TTTTGTAAAG CAAGCAACCN GCCTCCACTT 1 | 60 120 |
| 40 | TAGCTGTTTT NACTATINGA INTN | 144 |
| 70 | SEQ ID NO:5532 | |
| 45 | SEQUENCE LENGTH:224 SEQUENCE TYPE:nucleic acid TOPOLOGY:linear CLONE:HUMGS06579 SEQUENCE DESCRIPTION: | |
| | | 60 |
| 50 | AAAAATTGAA CATTACTAAT TTGAATGGAA AACACATGGT GTGAGTCCAA NGGAGGTGTT 1 TTCCTGAAGA NCTGTCTATT TCCTCAGTCA TTTTTAACCT CTAGAGTCAC TGATAGACAC | |
| | AAVVANDEED ROTELLE IN THE TENT OF THE STATE | UR |

| | AATATAATCT TATTTATAC | C TCAAANNGAN | TNANANGGGG | NNNN | • | 224 |
|-----|-----------------------|--------------|------------|------------|------------|-----|
| | SEQ ID NO:5533 | | • . | | | |
| 5 | SEQUENCE LENGTH: 345 | | | | | |
| | SEQUENCE TYPE: nuclei | c acid | | | | |
| | TOPOLOGY: linear | | | | | |
| | CLONE: HUMGS06580 | | | | | |
| | SEQUENCE DESCRIPTION | : | | | | |
| 10 | GATCTNCCTC NACACCTNG | G GCAAAGTCTA | TGCGAAGATG | GTTTCTTAGC | TCTCCATTTG | 60 |
| | CCATGATTIT CCTCCCATT | CATCATGAGGG | AGTTTCTCAA | ACCAGGAGTT | NATATTTATT | 120 |
| | TNTNAGAAAA TACACACTT | | | | | |
| | CCCCAGTCTC GGNNNCTGG | G ATTCAGCTCA | AGGNTTCAGT | GTCTTCATTT | TTACAAAAGT | 240 |
| 15 | TCCCCCAAGA AATCAGCAA | CAGCCTCTGT | TTCATCTGGG | AGCCCCTCCC | TNGGNCCCCT | 300 |
| | GGGTTTTGGG GGGTGCTGN | CTACTGGGGG | AACAGCGGGG | GGTGN | | 345 |
| | SEQ ID NO:5534 | | | • • | | • |
| | SEQUENCE LENGTH: 179 | | | | | |
| 20 | SEQUENCE TYPE: nuclei | acid | | | | |
| | TOPOLOGY:linear | | | | | |
| | CLONE: HUMGS06581 | | | | | |
| | SEQUENCE DESCRIPTION | | | | | |
| 25 | GATCATNTTG GAACCAGAC | | | | | - |
| | ACAAGAAAAA GCACCAAGT. | | | | | |
| | TTAAAGCTAA CAGTTGTAT. | A TCTGTATATA | TAACTATTAA | AAGGGATATT | TATTECAAA | 179 |
| | SEQ ID NO:5535 | | | | | |
| 30 | SEQUENCE LENGTH: 287 | | | | | |
| | SEQUENCE TYPE:nuclei | cacid | | | | |
| | TOPOLOGY:linear | | | | | |
| | CLONE: HUNGS06582 | | | | | |
| 0.5 | SEQUENCE DESCRIPTION | | | | | |
| 35 | GATCAAAGTT AAGNTTATA | CCTGTTTGTA | GTATCAGATA | TNTTCCTGTG | TACAATTATA | 60 |
| | GGATTGTAAT CTACACTGG | A ATTTTNAGGC | AGTAAGTCAC | CACAAAATGT | TTTAGATAAG | 120 |
| | ACACAATAAA ATTATTATA | A ATAAAAGCTT | AATGTTTGTA | AAAANTCTCT | TTTTTAGTAT | 180 |
| | TTCTTTTTTC ACATGNAAG | | | | GTTTATTANG | 240 |
| 40 | GGTCGTTTTG ATTTNTGTN | A NTCTTTGTAA | ATTGGTCAGT | GCCTGTN | | 287 |
| | SEQ ID NO:5536 | | | | | |
| | SEQUENCE LENGTH: 258 | | | | | |
| | SEQUENCE TYPE:nuclei | c acid | | | | |
| 45 | TOPOLOGY: linear | | | | | |
| | CLONE: HUMGS06583 | | | | | |
| | SEQUENCE DESCRIPTION | • | | | | |
| | GATCCCAGAG GCTCTCCTC | A CCTCANCTGA | GCTCCTTTAA | AAGTAATTCA | AGGGACTATG | 60 |
| 50 | TCACTCAGCC TCATTTNCT | G GACCAAATCT | GGAGGGAGAA | CCCCTAAAAC | CCCTAAGTAA | 120 |

| 5 | GGTTGCCCAG GGGGTTGTCC CCAGGTGGGG GGAAGCAGGG GAGAGAAAAT GGTAGCCATT 180 TTAACATTGT TTTGTATAGT ATTTATTGAT TCAGGAAACA AACACAAAAT TCTGAATAAA 240 ATGACTTGGA AACTGAAA 250 | 0 |
|------|--|---|
| 10 | SEQ ID NO:5537 SEQUENCE LENGTH:248 SEQUENCE TYPE:nucleic acid TOPOLOGY:linear CLONE:HUMGS06584 | |
| 15 | SEQUENCE DESCRIPTION: GATCGCTTGA GGCCAGTTCA AGACCAGCCT GGCCAACATG GCGAAACCCG TCTCCACTAA 60 AAATACAAAA CTTAGCCAGG CGTGGTGGCG CGCGCCTGTA ATCCCAGCTA NTCGGGAGGC 120 TGAGGCAGGN GAATCGCTTG AACCCGGGAG GTGGAGGTTA CAGTGAGCCA AGATTGCACC 180 ACTGCACTCC GGCCTGGGCA NCATNGCGAG ACTCTGTCTC AGNNAGGAGG GGGGGGTTNN 240 NNTANTNN 248 |) |
| 20 | SEQ ID NO:5538 SEQUENCE LENGTH:198 SEQUENCE TYPE:nucleic acid TOPOLOGY:linear | |
| 25 | CLONE:HUMGS06585 SEQUENCE DESCRIPTION: GATCCTGAAA GAGGACAAAC TACATTGCCT TTTAGACCTN TGACTCAAGA AGAAGATGAT 60 | |
| 30 | GACCAAAGGT GATTTGTAAC TTAACATGCC TTNTCCTGAT NTTGAAGGAT TTGTGAAGGG 120 AAAAAAATTC TNGGCTCTTT GTATATAATA AAATGAGACT ANANGCATTC TNNAAAAAAA 180 AAAAGATTAA NTTTAGAN 198 | |
| 35 | SEQ ID NO:5539 SEQUENCE LENGTH:188 SEQUENCE TYPE:nucleic acid TOPOLOGY:linear CLONE:HUMGS06586 SEQUENCE DESCRIPTION: | |
| 40 | GATCCCCACA CTTACTCTAC CCTCTNGGCA AATTGGCATT CCGGTGGTGG GTTTTGTNTC 60 CTTTAACACA TTAAATAAAT NAGTATATAG GATGTGAGGG GAGGGGTGAG ANCAACTAGC 120 TGTAGCATGT NTAGGCTATA TACTTTACCA NTTGACTTCT TTCCTGTTTT TNTTTNAAAA 180 NAAAAAAAN 188 | |
| 45 . | SEQ ID NO:5540 SEQUENCE LENGTH:138 SEQUENCE TYPE:nucleic acid TOPOLOGY:linear CLONE:HUMGS06587 | |
| 50 | SEQUENCE DESCRIPTION: GATCTGGGTG TGCTCTATGG GGAGTNCTGA CGTCAAANAG CAAATGTCTA TAAGGGGCCC 60 | |

| | TTTTAAAATN AACATTTTCCCATCTTNATA ATTNCACN | TCATTGAGCA | AGCNTGGATT | CTCTAATGTA | GAAATCAAGC | 120 138 |
|----|---|---|------------|------------|---------------------|------------|
| 5 | SEQ ID NO:5541 SEQUENCE LENGTH:332 | المائم | | | | |
| 10 | SEQUENCE TYPE:nucleic TOPOLOGY:linear CLONE:HUMGSO6588 SEQUENCE DESCRIPTION: | | | | | |
| | GATCCTCCCA CCTCAGCCTC | CTGAGTAGCT | | | | |
| | GAGATTCGCC TGTNTAAAA | | | | | |
| 15 | AAAGATGGAT TAGGGTGAGA | | | | | |
| | CAANAANTGN ATTTCCCTGN | GACAGCCGTT | TGTACGTACA | GCAGGGNNCT | GGTTTACAGN | 300 |
| | TTTCACGGAG GGNGGNTAGG | GTTCTTNTAC | TN | | | 332 |
| 20 | SEQ ID NO:5542 | | | | | |
| | SEQUENCE LENGTH: 106 | | | | 1 | |
| | SEQUENCE TYPE:nucleic | acid | | | | |
| | TOPOLOGY: linear CLONE: HUMGS06590 | | | | | |
| | SEQUENCE DESCRIPTION: | | | | | |
| 25 | GATCAAATNA TTTGACTATT | | TCTATACTCT | GTTGTAACAC | TGAGGTATCT | 60 |
| | CATTTGCCCA TGTTAATTT | | | | | 106 |
| | SEQ ID NO:5543 | | | | | |
| 30 | SEQUENCE LENGTH: 268 | | | • | | |
| | SEQUENCE TYPE: nucleio | acid | | | | |
| | TOPOLOGY: linear | | | | | |
| | CLONE: HUMGS06592 | | | | | |
| 35 | SEQUENCE DESCRIPTION: GATCACAGCC TCCAGGGCCC | | ACCCAACCAC | TTGGGLGLGL | ልምር <u>አ</u> ጥርርጥርጥ | 60 |
| | TGCATNTAGA NCTTTCTGC1 | | | | | |
| | TTNCTCTATA CATAGAGCTO | | | | | |
| | AGGCAGTAAG ANGTGCTTCT | | | | | |
| 40 | TTTTCNCANT TCGNGGGNAC | | | 0100010111 | | 268 |
| | SEQ ID NO:5544 | | | | | |
| | SEQUENCE LENGTH: 177 | | | | | |
| 45 | SEQUENCE TYPE:nucleio | acid | | | | |
| | TOPOLOGY: linear | | | | | |
| | CLONE: HUMGS06593 | | | | | |
| | SEQUENCE DESCRIPTION: | | 1000111001 | 1881800855 | 00101000 | |
| 50 | GATCCAATTA ACAAATTCTC | | | | | 60 |
| 50 | ALUIUIUAAI UIAAGAACA | ALILLMAAGA | AAIULIUIAA | CILIAIUUUA | LAIARCIIUA | 120 |

| | TANGAATTTC TCTATAGGCT | TGGNATTTGC | AATAAAAATA | GAGGATATGT | TGGCAAA | 177 |
|-----------|--|--|--|--|--|-------------------|
| 5 | SEQ ID NO:5545 SEQUENCE LENGTH:105 SEQUENCE TYPE:nucleic TOPOLOGY:linear | acid | | | | |
| 10 | CLONE: HUMGS06594 SEQUENCE DESCRIPTION: GATCANACAG CCTACANCCA TNCAGGGAGC AGCCCATTTA | | | | GAGGGCTCTC | . 60 105 |
| 15 | SEQ ID NO:5546 SEQUENCE LENGTH:149 SEQUENCE TYPE:nucleic TOPOLOGY:linear | acid | | · | | |
| 20 | CLONE:HUNGS06595 SEQUENCE DESCRIPTION: GATCATATNA GACGAGNAAG GAAAGTGAGA AACAGGAAAA TTCGTGTTTT CAGTCGCCTT | GGAAATTNAC | | | | |
| 25 | SEQ ID NO:5547 SEQUENCE LENGTH:411 SEQUENCE TYPE:nucleic | acid | | | | |
| 30 | TOPOLOGY:linear CLONE:HUMGS06596 SEQUENCE DESCRIPTION: GATCAGTGTG AGTCCTGAAG | | | | | |
| 35 | ATTCGTTTGT AAGCAGAGGA GGTGTCGAGT GAAGAGTAGT AAGCGTGCTG TGTTTTAGTC CAACNGCTTC ANCTATTGCC AGTCTCTGGA TGGGTGTGTT TTNAAGATTT GGCCCAAATA | TCTTGTTTGT CTGGTAGGAA CTTTCAACAG TGGTGGGTTT | TACAACCTTT TATTTATNAG TTTTGCCACT GTAACCATTG | GTGAGTCAGC AGTTCACACT GACCGGATAG ACGGGTTTAA | CATGCCCGCA ATGTAAAACC AACCGGTTTC ANCCATGGGT | 180 240 300 |
| 40 | SEQ ID NO:5548 SEQUENCE LENGTH:79 SEQUENCE TYPE: | | | | | |
| 45 | SEQUENCE TYPE:nucleic TOPOLOGY:linear CLONE:HUMGSO6597 SEQUENCE DESCRIPTION: GATCATAAAA GGCTATTATC AAAAATACTA AGCTNNAAA | | AACGATTATA | ACTTAAATAA | TTATTTTAAT | 60 79 |
| 50 | SEQ ID NO:5549 | | | | | <i>.</i> |

| 5 | SEQUENCE LENGTH: 102 SEQUENCE TYPE: nucleic acid TOPOLOGY: linear CLONE: HUMGS06599 SEQUENCE DESCRIPTION: | |
|----|--|------------|
| | GATCATCCTG CAAGTGCTCT NGTGCCTAGG ATTCATCTTT CTTTTCACCG TAGGCCCTGA CTGGCATTNT ATTAGCAAAC TCATCACTAG TCGTNGTNCT NN | 60 102 |
| 10 | SEQ ID NO:5550 SEQUENCE LENGTH:166 SEQUENCE TYPE:nucleic acid TOPOLOGY:linear | |
| 15 | CLONE:HUMGSO6600 SEQUENCE DESCRIPTION: GATCAAAACG ACGAAGAAAN GNCNCANAGA CTCAAATAAG GACAGAGTGA TTTCCAATAA | 60 |
| | TGTTCAATAG ATTTAGGAGC AGAAATGCAA GGGGCTGCAT GACCTACCAG GACAGANCTT TCCCCAATTA CAGGGTGACT CACAGCCGCA TTGGTGACTC ACNNNN | 120 166 |
| 20 | SEQ ID NO:5551 SEQUENCE LENGTH:219 SEQUENCE TYPE:nucleic acid | |
| 25 | TOPOLOGY:linear CLONE:HUMGS06601 SEQUENCE DESCRIPTION: GATCTCAGTT TCAAATCTCC CCAAGCTGCC TAAATTGAAA AAGCTTGAAC TCAGTGAAAA | 60 |
| 30 | TAGATTCTTT GGAGGTCTGG ACATGTTAGC TGAAAAACTT CCAAATCTCN NACATCTAAN CTTAAGTGGA AATAANCTGA AAGATATCAG CACCTTGGAA CCTTTGAAAA AGTTAGANTG TCTGANAAGC CTGGNCCTCT TTANNTGTGA GGTTNCCAN | |
| 35 | SEQ ID NO:5552 SEQUENCE LENGTH:104 SEQUENCE TYPE:nucleic acid TOPOLOGY:linear CLONE:HUMGS06602 | |
| 40 | SEQUENCE DESCRIPTION: GATCTCTTNG CGACAGTACC AAGCACGGTT CTCTACACAG GTGACTNAAG TTGCCTCTGT GTTGGCTGGC ATCCCTGAGT CCCCTNCGGG CTCCTATGGA NCNN | 60 104 |
| 45 | SEQ ID NO:5553 SEQUENCE LENGTH:94 SEQUENCE TYPE:nucleic acid TOPOLOGY:linear CLONE:HUMGS06603 | |
| 50 | SEQUENCE DESCRIPTION: GATCATCIGA GCCTCAGGAG GTTGAGGCTG NAGTGAGCTG TGACTNCGCC ACTGNACTCC | 60 |

| | | | _ | | | |
|----|--|------------|-----------------|------------|------------|-----|
| | AGTCTGGGAC AACAGAGCAA | GACCCNGTCT | TAAA | | | 94 |
| | SEQ ID NO:5554 | • | | | | |
| 5 | SEQUENCE LENGTH: 78 | | | | | |
| | SEQUENCE TYPE:nucleic | acid | | | | |
| | TOPOLOGY: linear | | • | | | |
| | CLONE: HUMGS06604 | | | | | |
| 10 | SEQUENCE DESCRIPTION: | | | | | |
| 10 | GATCTCCAGC TGCACAGGCC | ACCGNCCCAG | GGCGTGGCCG | CTGTTACAGA | AACAATAAAC | 60 |
| | CCTGATGGGC ATGGCAAA | | | | | 78 |
| | SEQ ID NO:5555 | | | | | |
| 15 | SEQUENCE LENGTH: 191 | | | | | |
| | SEQUENCE TYPE:nucleic | acid | | | | |
| | TOPOLOGY: linear | | | | | |
| | CLONE: HUMGS06605 | | | | | |
| 20 | SEQUENCE DESCRIPTION: | | | | | |
| 20 | GATCGTAACA ATGCCAAGAA | GACACAAGAA | TATGAGAAAG | GAATTCCTAG | AAAAAAGGCA | 60 |
| | AAGGTTTCAA TGACTAAGCT | AATTTTTNCT | AAGTCTACTG | ATAACATACT | CCCTACCCCA | 120 |
| | TCCTCCATTA ATAAAAGANT | GGTTGTTGTA | TTGTATTATG | AGGGAATTAA | AAGTGTGATA | |
| | NGANANNNN N | | | | | 191 |
| 25 | AND IN NO FEED | | | | | |
| | SEQ ID NO:5556 | | | | | |
| | SEQUENCE LENGTH: 102 | | | | | |
| | SEQUENCE TYPE:nucleic | acid | | | | |
| 30 | TOPOLOGY: linear | | | • | | |
| | CLONE: HUMGS06606 | | | | | |
| | SEQUENCE DESCRIPTION: | C11#1CC111 | T. T.C. 1 TTCCC | CCTTCLTCTC | CCCACCCCTC | 60 |
| | GATCGGAGAA TTGTGTAGGC TTTAAGGGGT TGGCTAGGGT | | | | GGGAGGGGG | 102 |
| | IIIAAUUUUI IUUCIAUUUI | AIAAIIGICI | UUUICUCCIA | AA. | | 102 |
| 35 | SEQ ID NO:5557 | | | | | |
| | SEQUENCE LENGTH: 135 | | | | | |
| | SEQUENCE TYPE:nucleic | acid | | | | |
| | TOPOLOGY: linear | | | | | |
| 40 | CLONE: HUNGSO6607 | | | | • | |
| | SEQUENCE DESCRIPTION: | | | | | |
| | GATCTCACTT CTGTCAGATG | CTCCCATCCA | CTATNAATGC | ACTAGGTGGG | AGGAGAGGC | 60 |
| | GGCAATGACA CTGCACCTCT | | | | | |
| | TTTTTTAACG TGAAA | | | | | 135 |
| 45 | | | | | | |
| | SEQ ID NO:5558 | | | | | |
| | SEQUENCE LENGTH: 182 | | | | | |
| | SEQUENCE TYPE:nucleic | acid | | | | |
| 50 | TOPOI OGY - Linear | | | | | • |

| | CLONE: HUMGS06608 SEQUENCE DESCRIPTION: | | | | | |
|----|--|------------|------------|------------|------------|------|
| _ | GATCAAGTAA AAATGCAAAT | CAATGATGCA | AAGAAAACAG | AAAAGAAAA | GAAGAAAAGA | 60 |
| 5 | CAGGATATTT CTGTTCATAA | | | | | |
| | ATGTGTAAGC TTATATTGTG | TCATTGTNCT | GTTTTATAAT | AAAATNCTTG | AGAACCTTCA | 180 |
| | AA . | | | | | 182 |
| 10 | SEQ ID NO:5559 | | | | | |
| | SEQUENCE LENGTH: 125 | | | | | |
| | SEQUENCE TYPE:nucleic | acid | | | | |
| | TOPOLOGY: linear | | | | | |
| 15 | CLONE: HUMGS06609 | | | | | |
| 75 | SEQUENCE DESCRIPTION: | | | | | |
| | GATCTTGACC TCACGGTGTA | | | | | |
| | TGCCCGTGCC TCTNTGCTGT | GTATGTGAAC | CACCCACGTG | AGGGAATAAA | CCTGGCACTA | |
| | GGAAA | | | • • | | 125 |
| 20 | SEQ ID NO:5560 | | • | | | |
| | SEQUENCE LENGTH: 195 | | | | | |
| | SEQUENCE TYPE:nucleic | acid | | | | |
| | TOPOLOGY: linear | | | | | |
| 25 | CLONE: HUNGSO6610 | | | | | |
| | SEQUENCE DESCRIPTION: | | | | | |
| | GATCTTTTTA GATACAATCC | TTATTTAAAA | AGGAGAAGAT | AACTGAGGAT | TTTAAAAAGA | 60 |
| | AGCCATGGAA AAACTTCCTA | | | | | |
| 30 | TAGTGTATAG AAGCGATTTA | AGTTACAATG | TTTTATGGCC | TTATTTAAAT | AAATAAAATG | 180 |
| | CACAAAACTT TGAAA | | | | | 195 |
| | SEQ ID NO:5561 | | | | | |
| | SEQUENCE LENGTH: 131 | | | | | |
| 35 | SEQUENCE TYPE:nucleic | acid | | | | |
| | TOPOLOGY: linear | | | • | | |
| | CLONE: HUMGS06611 | | | | | |
| | SEQUENCE DESCRIPTION: | | | | | |
| 40 | GATCTTGTGC TCAACATGAT | | | | | 60 |
| | CATGTGGGTG AGCCAGTGGA | ACAGCGGGAG | ACCTGTGCTA | GTTTTACAGA | TTTCCTCCTA | |
| | AATNNCGCGG N | | | | | 131 |
| | SEQ ID NO:5562 | | | | | |
| 45 | SEQUENCE LENGTH: 196 | | | | | |
| | SEQUENCE TYPE:nucleic | acid | | | | |
| | TOPOLOGY:linear | | | | | |
| | CLONE: HUMGS06612 | | | | | |
| 50 | SEQUENCE DESCRIPTION: | ma | | A | Ded. De | a' - |
| | GATCTAATAG CTGAACTGAT | ILAAACTGTA | ATARGUTUAT | CAATTTCANT | TITATGAAAA | KΩ |

| | TGTGCTCTGT TGTCACAGGA CATCATGTTC CNGATGATAA NGGGACTGNN AAANAN | | | | | |
|----|---|-------------|-------------|------------|--------------|-----|
| 5 | | | | | | |
| | SEQ ID NO:5563 | | | | | |
| | SEQUENCE LENGTH: 307 | | | | | |
| | SEQUENCE TYPE:nucleic | acid | | | | |
| | TOPOLOGY: linear | | | | | |
| 10 | CLONE: HUMGS06613 | | | | | |
| | SEQUENCE DESCRIPTION: | | | | | |
| | GATCCCATAA TATAAATCAT | ATCCTTTATA | TTTNAGAATA | TCTCAAATGT | . ATTCCTTTTT | 60 |
| | TGTATGGTGG GTTTGCCTAG | GGACGTGTAA | CTACAGGCTT | TTACTAAGCC | AAGGAAAAAG | 120 |
| 15 | AGAATTTTNC TTTTCATCTT | ACAAATTCCA | GATATCTACA | AANGNTGTGA | AAGCACTAAA | 180 |
| | AGNGNNGNTT TTAAGCAGTA | CTTTACCTGT | TTTTCCTTTA | GCAAACCAGG | TTATGTGGTG | 240 |
| | TAAAGGTTTG TNATACGTGC | CACAATATAG | CATATAAATG | TTATGCCATC | ATTCCTTCTC | 300 |
| | TTGTTAN | | | • • | | 307 |
| 20 | | | | | | |
| 20 | SEQ ID NO:5564 | | | | | |
| | SEQUENCE LENGTH: 188 | | | | | |
| | SEQUENCE TYPE: nucleic | acid | | | | |
| | TOPOLOGY: linear | | | | | |
| 25 | CLONE: HUMGS06614 | | | | | |
| | SEQUENCE DESCRIPTION: | | | | | |
| | GATCTATACA TGAACAGCAG | | | | | 60 |
| | TTGTNCATTT CTGTTAATCG | | | | | |
| 20 | GGGTAAGAGT TTGTAGACTC | TTTCAGCAGA | ACAGATTTTA | ATAACCAATT | TATNTGTTTT | 180 |
| 30 | ATTTAAA | | ٠ | | | 188 |
| | CEO ID NO. FECE | | | | | |
| | SEQ ID NO:5565 SEQUENCE LENGTH:178 | | • | | | |
| | SEQUENCE TYPE:nucleic | :- | | | | |
| 35 | TOPOLOGY: linear | acid | • | | | • |
| | CLONE: HUMGS06615 | | | | | |
| | SEQUENCE DESCRIPTION: | | | | | |
| | GATCAGCACA TCCAAAAACA | CCAAGACAAA | CATCCATGTG | GAGCAGAACC | THTCCTCCCT | 60 |
| | CGGGAGTTCT GACCAGGTTC | | | | | |
| | ATNCGGGTTC CACTTTTCCT | | | | | 178 |
| | | noononona 1 | donunitoudh | NUNUNUUNN | AUUMNUUM | 110 |
| | SEQ ID NO:5566 | | | | | |
| | SEQUENCE LENGTH: 104 | | | | | |
| 45 | SEQUENCE TYPE: nucleic | acid | | | | |
| | TOPOLOGY: linear | | | | | |
| | CLONE: HUMGS06616 | | | | | |
| | SEQUENCE DESCRIPTION: | | | | | |
| 50 | GATCTATCAT TTTAATTGAT | TCTGAAGCTT | GTATTAAAAA | CTAGGCAATA | NCATCATGGG | 60 |

| | ATACATAGGA GANGGCACAT | TTTACAATCA | TNCATTNTGG | CCNN | | 104 |
|----|--|------------|------------|------------|------------|----------|
| 5 | SEQ ID NO:5567 SEQUENCE LENGTH:130 SEQUENCE TYPE:nucleic TOPOLOGY:linear CLONE:HUMGS06617 | acid | | | | |
| 10 | SEQUENCE DESCRIPTION: GATCTGCTGA, CAAAACCTGG AAATNTGTAT TTAACTTATG ACTATTTAAA | | | | | |
| 15 | SEQ ID NO:5568 SEQUENCE LENGTH:80 SEQUENCE TYPE:nucleic TOPOLOGY:linear | acid | | | | |
| 20 | CLONE:HUMGS06618 SEQUENCE DESCRIPTION: GATCATTTAA CATTCTGTGT AAAATTTTTT AATGGGCAAA | ATGTAACAAA | ATATCACATG | CATAAATATT | ATGTATCAAT | 60 80 |
| 25 | SEQ ID NO:5569 SEQUENCE LENGTH:58 SEQUENCE TYPE:nucleic TOPOLOGY:linear | acid | | | · | |
| 30 | CLONE:HUMGS06619 SEQUENCE DESCRIPTION: GATCCGGTCA CTGCACTCCA | GCCTNGGAGA | CTACAGCAAG | ACTCTNTCTC | CAGTTAAA | 58 |
| 35 | SEQ ID NO:5570 SEQUENCE LENGTH:188 SEQUENCE TYPE:nucleic TOPOLOGY:linear CLONE:HUMGSO6620 | acid | | | | |
| 40 | SEQUENCE DESCRIPTION: GATCTGAGGG GTGGTGCCTA AATCANGATA AGAGAAGCCT GCCAGTTAAA AAACCAGAGC ANNNGGTN | GTTTAAAGGA | GCAGATGCCA | TCTNCTGNCT | TCCTCAAGGA | 120 |
| 45 | SEQ ID NO:5571 SEQUENCE LENGTH:240 SEQUENCE TYPE:nucleic TOPOLOGY:linear | acid | | | | |
| 50 | CLONE: HUNGSO6621 | | | | | |

| 5 | | SEQUENCE DESCRIPTION: GATCATAAAC CGTTGCGGGA AGTCAACAAG GACTACCAGT GGCAGTATGG GACAGAATGA AGATGGAAAA NTATAANCTA | TCACCATCCT AAGTCGCTTG | GGACGTCCGT GTGGCGTTGG | CCTGCCTTAG ACCTCGTAAA | ATTCACTTTC GCACTGTTTC | 120 180 |
|----|----------|---|--|--|--------------------------|--------------------------|------------|
| 10 | ס | SEQ ID NO:5572 SEQUENCE LENGTH:197 SEQUENCE TYPE:nucleic TOPOLOGY:linear | acid | | | | |
| 15 | 5 . | CLONE:HUMGS06623 SEQUENCE DESCRIPTION: GATCCTCATC TTCCCCAAAT AGGCAAGGCT CTTGGGGTTC CATGAATATA GTCCATTGTC ATTGGGGAAC ATTGAAA | CCCTAAAACA | CTTCCTCTTT | TAAGCCTACC | ACTCACTCAT | - |
| 20 | 0 | SEQ ID NO:5573 SEQUENCE LENGTH:109 | | | | | |
| 2 | , | SEQUENCE TYPE:nucleic TOPOLOGY:linear CLONE:HUMGSO6624 SEQUENCE DESCRIPTION: GATCTGGCTC AGTCTACTAT | | CCCCACCAAC | СТСАССССАА | TEGAGACAGC | 60 |
| | | TGAGCTGAGG CCTGACTTTT | | | | Iddadacadc | 109 |
| 30 | | SEQ ID NO:5574 SEQUENCE LENGTH:333 SEQUENCE TYPE:nucleic TOPOLOGY:linear | acid | | | | |
| 3 | b | CLONE: HUNGSO6625 SEQUENCE DESCRIPTION: GATCTGAGCT GATGACTTGT | | | | | |
| 4(| | ACAGTAAGAG ACTGCCGCCT AACAAGACAA CATCCTTCAT CAAACAANTC AGNAGGCAGT TCATANCTGA AATTGCTTAT TGCTCATTNC CAAGCTCCNA | ACCAGGAATG CAACAAACAG TGTGTACACC | GTCAAGATAA NAAGGGGGNC GGGGCTTGTA | TGCAAGAAGA ATTCCTTCCC | GNGNAGCTTT TGGCAGTTAC | 180 240 |
| 4 | 5 | SEQ ID NO:5575 SEQUENCE LENGTH:132 SEQUENCE TYPE:nucleic TOPOLOGY:linear | acid | | | | |
| | | CLONE: HUNGSO6626 | | | | | |

| | GATCGATTGC AGTCAGAGCC TTGGAAGCCC TTGATGCCAA NNGGAGCTAG AN | | | | | |
|------|---|------------|------------|------------|------------|-----------|
| 5 | | | | | | |
| . 10 | SEQ ID NO:5576 SEQUENCE LENGTH:272 SEQUENCE TYPE:nucleic TOPOLOGY:linear | acid | | | | |
| ,, | CLONE:HUMGSO6627 SEQUENCE DESCRIPTION: GATCTTGGCT TCTNACAGTT | | AAACTCCATC | CTGTCCCTCA | GGAACGGGGG | 60 |
| 15 | GAAAATTCTC CGAATGTTTT GGTCATCACT GTCCTCACTA | | | | | |
| 70 | CACTCCTAAG TCGCTATATT NTTTGANAGG GANNGGNGNG | AAGGCTTATA | TTTTGNTGGA | | | |
| 20 | SEQ ID NO:5577 SEQUENCE LENGTH:133 SEQUENCE TYPE:nucleic | | | | | |
| | TOPOLOGY: linear CLONE: HUMGS 06628 SEQUENCE DESCRIPTION: | acid | | | | |
| 25 | GATCATCCTG TCTGGCTGCA GAGTGCAGCC CTACCTTCTT TTAAAAATTT AAA | | | | | |
| 30 | SEQ ID NO:5578 SEQUENCE LENGTH:186 | | | | | |
| 35 | SEQUENCE TYPE:nucleic TOPOLOGY:linear CLONE:HUMGS06630 SEQUENCE DESCRIPTION: | acid | | | | |
| | GATCCACAAA CTNCCTGACA GGAGGCCAGC CNTCGGTCTT GGACACCGAG TTCTAAGCCA | CGTCGATGCC | TGACTCAGGC | ANGCCAGCTT | TCCGCGTGGT | 120 |
| 40 | CANCNN | | | | | 186 |
| | SEQ ID NO:5579 SEQUENCE LENGTH:136 | | | | | |
| 45 | SEQUENCE TYPE:nucleic TOPOLOGY:linear CLONE:HUMGSO6631 SEQUENCE DESCRIPTION: | | | | | _ |
| 50 | GATCCACTGC CTCGGCCTCC TGTAATTTTA TGTATCTTTA | | | | | 60 120 |

| | TCTAAGGATA GTGAAA | | | | | 136 |
|----|--|--|--|--------------------------|--------------------------|------------|
| 5 | SEQ ID NO:5580 SEQUENCE LENGTH:66 SEQUENCE TYPE:nucleic TOPOLOGY:linear | acid | | | | |
| 10 | CLONE:HUMGS06632 SEQUENCE DESCRIPTION: GATCCCCGTT CTCAAGTGTC CAGAAA | NCNGGGAACA | TAAACNGAGA | TAACATGAAA | AAACTTGACA | 60 66 |
| 15 | SEQ ID NO:5581 SEQUENCE LENGTH:122 SEQUENCE TYPE:nucleic TOPOLOGY:linear CLONE:HUMGS06633 | acid | | | | |
| 20 | SEQUENCE DESCRIPTION: GATCCTTNAA GGCAGCTGCC CCTAGCTTAT ATAAGGGAAC AA | | | | | |
| 25 | SEQ ID NO:5582 SEQUENCE LENGTH:262 SEQUENCE TYPE:nucleic TOPOLOGY:linear | acid | | | | |
| 30 | CLONE: HUMGS06634 SEQUENCE DESCRIPTION: GATCCAGGGC CGTTCATGAA | CCACTGGGCT | GGATTNGACT | GTTGAGTGTG | GCAGTTAATG | 60 |
| 35 | CCCCTCAANA AATCAAAGGA TCCTATTGGC AAAGTAAACT CCCANTTNTT GNATACTNAT TATTGTTAGN AGTGCANATN | GAAATTGGCT GTNGGACATG | GCTATATTTN | ATATAATCAT | TTCTGCAANT | 180 |
| 40 | SEQ ID NO:5583 SEQUENCE LENGTH:275 SEQUENCE TYPE:nucleic | acid | | | | |
| | TOPOLOGY: linear CLONE: HUMGSO6635 SEQUENCE DESCRIPTION: GATCCTGGCC AGTACAAAGT | CGTTGCTCTT | GTTTTATCTT | CTCTTACAGA | GTCTCCCTCC | 60 |
| 45 | CTTTATAGAA TGTCAACCAA CTCCCCATCT CATCACAACG GAACCCTGTA TTTTGCACAC TGCTGTAAAT GGAAATAAAT | AGAGTGCCCT CATGTCTGTG AGCAAAACAA | CCTCCCCTCT ACCTTTGGTA ACAATGTTTA | CAGCCTCCTN ATCATTTACA | TNNAGCTAGC GTGCCACACG | 120 180 |
| 50 | INVITABLE AGENTIUMI | | niann | | | 213 |

| 5 | SEQ ID NO:5584 SEQUENCE LENGTH:170 SEQUENCE TYPE:nucleic TOPOLOGY:linear CLONE:HUMGS06636 SEQUENCE DESCRIPTION: | | | | | |
|----|---|--|--|--|--|-------------------|
| 10 | GATCTCTCTC GCCACGGCAC GCAGAGCTCT GAGCACTCGC TGCCCTCCGG GGCGTTAATA | TTCGCGTCGC | GGGGTCTCCC | TCCTGTTGCT | TTCCTAACCC | |
| 15 | SEQ ID NO:5585 SEQUENCE LENGTH:115 SEQUENCE TYPE:nucleic TOPOLOGY:linear CLONE:HUMGS06637 | acid | | | | |
| 20 | SEQUENCE DESCRIPTION: GATCAGCTTT NAGAGTGGTC AATACTTCAT ATTTAAGTNT | | | | | 60 115 |
| 25 | SEQ ID NO:5586 SEQUENCE LENGTH:254 SEQUENCE TYPE:nucleic TOPOLOGY:linear CLONE:HUMGSO6638 SEQUENCE DESCRIPTION: | acid | | | | |
| 30 | GATCCTTGTG GACTGCCACT ACAAAGACAG AGGACTTGGA CATGGCATGG AATCAAGTGG TCAATGTATG TTTGCCTGCT ATGAAAGTGA GAAA | CCAGGGCATG GCTGATGTGT | CCCTGTTGGG TGTTATTTAA | GATGTTTCTG ACAGTACCAA | TCAGCAAGGA AGTGCATTCT | 120 180 |
| 35 | SEQ ID NO:5587 SEQUENCE LENGTH:301 SEQUENCE TYPE:nucleic | acid | | | | 231 |
| | TOPOLOGY: linear CLONE: HUMGSO6639 SEQUENCE DESCRIPTION: | | | | | |
| 45 | GATCCCGCCC TGACCCAGAG AATTGACCCC TTCCTCCAGG TTTCTTCCTC CAATCCCCAG GTGTTCTCTT GGGGGGTCAG CCGCTGTATC GCATATTGNN | GGTCTTGGGT TTTGTATTTA GGTGCTGTCC | GGGGGAGCCC GCTGCCAAAT CCTNCNNTCT | AGGGCCCCTG AAGATTCCCA GTTTACATCT | TGACCCCTCC TTGGNTCCCT CCCCTNTACC | 120 180 240 |
| | A SEQ ID NO:5588 | | | | | 301 |

| 5 | SEQUENCE LENGTH:206 SEQUENCE TYPE:nucleic acid TOPOLOGY:linear CLONE:HUMGS06640 |
|------|---|
| 10 | SEQUENCE DESCRIPTION: GATCAGAGAA AATACGGTAC ATGTCCCCAT GGAGGATATG GCTTGGNCTT GGAACGATTC 60 TTAACGTGGA TTCTGAATAG GTATCACATC CGANACGTGT GCTTATACCC TCGATTTGTC 120 CAGCGTTGCA CGCCATAACC ATTTTCTCCA GAAGCGTGGA GGAAAGATTA TNNAAGGANC 180 AGGCTCTTCA AAAAAANNAN GNNAAN 206 |
| 15 | SEQ ID NO:5589 SEQUENCE LENGTH:84 SEQUENCE TYPE:nucleic acid TOPOLOGY:linear CLONE:HUMGS06641 SEQUENCE DESCRIPTION: |
| 20 | GATCTTCTTC ACACCAAGCT CATGGTTACA TNCCGTGAGG TGTCATGAAG AAAGTNCTGT 60 TCAATAAGGT TTTGTAATGT TAAA 84 |
| 25 | SEQ ID NO:5590 SEQUENCE LENGTH:150 SEQUENCE TYPE:nucleic acid TOPOLOGY:linear CLONE:HUMGS06642 SEQUENCE DESCRIPTION: GATCTGTGGC TGGAATNGAG GGAGCGCCTG CTTCTTCTCC AGCTTGGAAA AACAATAGGA 60 |
| 30 | GAAGGGTCAG CTCCGCGCGG GCATCATCCC TACCAGATTG AGTGTTTTGC ACGCACTTCA 120 ATCACAAAAT AAAACAGTGA GAAAGTCAAA 150 |
| 35 | SEQ ID NO:5591 SEQUENCE LENGTH:123 SEQUENCE TYPE:nucleic acid TOPOLOGY:linear CLONE:HUNGS06643 |
| 40 . | SEQUENCE DESCRIPTION: GATCATCATA TCAAGATGAT ACCAAAAGTA TGTAAAAAGA AACCTGCATT ATTTTGTAAT 60 NATTTCTTAT AGATATTTCA TGGTAAGATT AGCAGTCAAT AAAGTTACTT TTTTNCCTTT 120 AAA 123 |
| 45 | SEQ ID NO:5592 SEQUENCE LENGTH:170 SEQUENCE TYPE:nucleic acid TOPOLOGY:linear CLONE:HUMGS06645 |
| 50 | SEQUENCE DESCRIPTION |

| | GTATTTTTTG NTATGTAGAA ATNTTTATTT TCATGTAAGC AAATTTATGA ATCTTTGNAC 12 | 60 20 |
|----|---|----------|
| 5 | ACCATAAGTA TATACAATTA TGATTTGTCA ATTAAAAATA TTAGTACAAA 17 | 0 |
| | SEQ ID NO:5593 SEQUENCE LENGTH:101 SEQUENCE TYPE:nucleic acid | |
| 10 | TOPOLOGY:linear CLONE:HUMGSO6646 SEQUENCE DESCRIPTION: GATCATCCGG TGAAAGAACC AGTCCCTGNG CCCCAAGGAT GCCGGGGAAA CAGGACCNTC 66 | 0 |
| | TCCTTTCCTG GAGCTGGTTT AGCTGGATAT NGGNGGNTTT N 10 | - |
| 15 | | |
| | SEQ ID NO:5594 SEQUENCE LENGTH:104 SEQUENCE TYPE:nucleic acid TOPOLOGY:linear | |
| 20 | CLONE:HUMGS06647 SEQUENCE DESCRIPTION: GATCTCCGTG GGAACATTTT CGTTGCTGTC GGTGCTGGCA GGAGCCTGTT TCTTCCTGGT 60 |) |
| | CCTGAAATAT AGAGGCCTGA TTAAATACTG GTTTCACACT CAAA 104 | |
| 25 | SEQ ID NO:5595 SEQUENCE LENGTH:91 | |
| 30 | SEQUENCE TYPE:nucleic acid TOPOLOGY:linear CLONE:HUMGS06649 | |
| | SEQUENCE DESCRIPTION: GATCGTGCTG CACAACCGGA GAAGACAGAA TTACCTCTGC TCTTTTAATA TATAATGATG 60 GCTTTAAATA AANTTAGGAG AAAATGTCAA A 91 | |
| 35 | | |
| | SEQ ID NO:5596 SEQUENCE LENGTH:126 SEQUENCE TYPE:nucleic acid TOPOLOGY:linear | |
| 40 | CLONE:HUNGS06650 SEQUENCE DESCRIPTION: GATCCAGAGA GTGGGGGTGAGGCC CTGAAGACTT TTTGTCTGTA GCTCTTGCAT 60 | |
| | ATTGAGTGTA TAAACCCGGC TTCTGGACCA ACCCAAGATG AATAAACTGG GGCAGAAAAT 120 | |
| 45 | TACAAA 126 | |
| | SEQ ID NO:5597 SEQUENCE LENGTH:393 | |
| 50 | SEQUENCE TYPE:nucleic acid | |
| 50 | TOPOLOGY: linear | |

| 5 | CLONE:HUMGS06651 SEQUENCE DESCRIPTION: GATCCTGGTG GCCACCAATN CTTTAACTAC GACATGCCTG TCGCTTTGGC ACCAAAGGCC | AGGACTCGGA TAGCCATCAC | CACCTACCTG TTTTGTGTCT | CACCNNGTGG GACGNGAATA | CCCGTGCGGG ATGCCAAAAT | 120 180 |
|------|---|--------------------------|--------------------------|--------------------------|--------------------------|------------------|
| 10 | CCTCAATAAC GNCCAGGACC CATNTCCACA TACATCGAGC AGNCGACCGT ATTGTAGCTT NGAGGTTTGT TTTNNTGGNT | AGAGCCGGTA TTAACTNCCC | ANCACCACGT TTTNCCAGGC | GCCAGAGCCG | GNCCANCCTG | 300 |
| 15 | SEQ ID NO:5598 SEQUENCE LENGTH:69 SEQUENCE TYPE:nucleic TOPOLOGY:linear CLONE:HUMGS06652 | acid | | | | |
| 20 | SEQUENCE DESCRIPTION: GATCAGAAGG CTCTGGNCAA GCAAGCAAA | GAGAATGAAA | ATNAGGATGA | GGAATAATAA | ACTCTTTTTG | 60 69 |
| 25 | SEQ ID NO:5599 SEQUENCE LENGTH:85 SEQUENCE TYPE:nucleic TOPOLOGY:linear CLONE:HUMGS06653 SEQUENCE DESCRIPTION: | acid | | | | |
| 30 | GATCTCTTTG TCCCTGAGGT GTTAATAAAT TGCCTCATTC | | AACAAGAAGC | ATTAGAACAA | ACCATGCTGG | 60 85 |
| 35 | SEQ ID NO:5600 SEQUENCE LENGTH:149 SEQUENCE TYPE:nucleic TOPOLOGY:linear CLONE:HUNGS06654 SEQUENCE DESCRIPTION: | acid | | | | |
| 40 · | GATCTTGGAG TCGTGGAACT TTCACCACCA AGAGGCCCAA CAAATAAACT CAGGAACGCC | CACCTTCTTC | | | | 60 120 149 |
| 45 | SEQ ID NO:5601 SEQUENCE LENGTH:120 SEQUENCE TYPE:nucleic TOPOLOGY:linear CLONE:HUMGSO6656 SEQUENCE DESCRIPTION: | acid | | | | |
| | GATCGATGTG CTCAGCCAAA | THTCCTGTTT | GAAATATCAT | CTTALATTAC | 4 4 T C 4 4 T T T 4 | ėn' |

TCTTTACCAA AAACCATGTT GCGTTCAAAG AGGTGAACAT TAAAATATAG AGACAGGAAA 120

| 5 | SEQ ID NO:5602 SEQUENCE LENGTH:162 SEQUENCE TYPE:nucleic TOPOLOGY:linear | acid | | | | |
|----|--|------------|------------|------------|------------|------------------|
| 10 | CLONE:HUMGS06659 SEQUENCE DESCRIPTION: GATCAAAACC AAAAAAAATG TATTTTGTAG ATGAAAAAAC GTGATGTGGT TTCTATTAAA | TTTCTGGGGA | CCTCTTGAAT | TACATGCTGT | | 60 120 162 |
| 15 | SEQ ID NO:5603 SEQUENCE LENGTH:56 SEQUENCE TYPE:nucleic | acid | | | | |
| 20 | TOPOLOGY:linear CLONE:HUMGS06660 SEQUENCE DESCRIPTION: GATCCTGTTC TGTAATAAAC | ATATTTTGCC | TTGAGTAAAT | TTGTTGTAAG | CTTAAA | 56 |
| 25 | SEQ ID NO:5604 SEQUENCE LENGTH:90 SEQUENCE TYPE:nucleic TOPOLOGY:linear | acid | | | | |
| 30 | CLONE: HUMGSO6661 SEQUENCE DESCRIPTION: GATCCTTCTT GTATCTTGAA ACATTCTTCT GGTAAATATT | | TGGGATTTCT | GGACTGATAA | ATGAATCATC | 60 90 |
| 35 | SEQ ID NO:5605 SEQUENCE LENGTH:219 SEQUENCE TYPE:nucleic | acid | | | | |
| 40 | TOPOLOGY:linear CLONE:HUMGS06662 SEQUENCE DESCRIPTION: GATCTGAAGA AGATGATGAA GGCCAACTGT GCAGGAAGAT | | | | | 60 120 |
| 45 | TACAGCTGNA ACTCCAGGGT ATGGGAATNC NGNGCATGCT SEQ ID NO:5606 | | | TTCANTCATT | ACTCTGAAAA | 180 219 |
| 50 | SEQUENCE LENGTH: 289 SEQUENCE TYPE: nucleic TOPOLOGY: linear CLONE: HUMGS06664 | acid | | | | |
| - | ~~~··································· | | | | | |

| | SEQUENCE DESCRIPTION: |
|----|---|
| | GATCAACTGA ACCAGTATGC CAAAACCAGG CATCCAATTT GTAAACCAAT TATGATAAAG 60 |
| | GACAAAATAA GCTGTTTGCC ACCTCAAAAC TTTATGAACT TCACCACCAC TAGTGTCTGT 120 |
| 5 | CCATGGAGTT AGAGGGGACA TCACTTAGAA GTTCTTATAG AAAGGACACA AGTTTGTTTC 180 |
| | CTGGCTTTAC CTTGGGAAAA TGCTAGCAAC ATTATAGAAA TTTTGCCTTG TTGCCTTATC 240 |
| | TTCTTCCAAA TGTACTGTTA AATAAAAATA AAGGGTTACC CCATGCAAA 289 |
| 10 | SEQ ID NO:5607 |
| | SEQUENCE LENGTH: 216 |
| | SEQUENCE TYPE:nucleic acid |
| | TOPOLOGY:linear |
| | CLONE: HUNGS06666 |
| 15 | SEQUENCE DESCRIPTION: |
| | GATCTGGAGC ATTTGAANCA AGTTTATAGA AGANCATGCC ACAAAACTAA GCAGGACCAA 60 |
| | GGAAGAGCTT TNAAGGCCTG AGGTCTGCGG AAGGTGGGAG GAGGCAGACG CCCTGCNTGG 120 |
| | CCCATGGTCG GGGCGTCCAC GGCGAGGCCG GCAACAAACG GCAGTATCTN GNATTCCTTT 180 |
| 20 | TTTNTTTTT NAAATTTTTA ATNCTTTGGT NTTTCN 216 |
| | SEQ ID NO:5608 |
| | SEQUENCE LENGTH: 350 |
| | SEQUENCE TYPE:nucleic acid |
| 25 | TOPOLOGY:linear |
| | CLONE: HUMGS06667 |
| | SEQUENCE DESCRIPTION: |
| | GATCAGAATT ATAACCATGG AGAATTTTTT CTTCTGAGCA TTTTAATATA CTTGAAAACA 60 |
| 30 | ACATTGACTT GAAAAATTTC AGAACATTTT TCAGTACCTA GTTTTATTAA ATATTACACT 120 |
| 30 | TGAGAGACAC TTTTTAAAAA TGTGTTAATG TCAATATGAT GAGATTTTAG CCTTTCTCCA 180 |
| | GAACTAAGGC ATTAAAGAAA ATAGCAAATA TTAAAAAATA AAACTGTTAC TTTTTTCCTT 240 |
| | CTTTCTTTTC ACCTTTAGGT TAATATCCAG TATTATGTGT TATCCCNTTG GATAAGTATG 300 |
| | CTTTATTTTA CCTCNGTTAA AAATTAAAAT AAATGATTTC TATTCATAAA 350 |
| 35 | |
| | SEQ ID NO:5609 |
| | SEQUENCE LENGTH: 105 |
| | SEQUENCE TYPE:nucleic acid |
| 40 | TOPOLOGY: linear |
| | CLONE: HUNGSO6668 |
| | SEQUENCE DESCRIPTION: |
| | GATCCTNAAG AGAGCTGTCC CAGCACTCTG GCCACCAGGA GGGCCANATT CCCCANAAAC 60 |
| 45 | TACCINITGC CCAAAGAACA INCICAGIAI IIGGGGCAII ICCIN 105 |
| 45 | SEQ ID NO:5610 |
| | SEQUENCE LENGTH: 265 |
| | SEQUENCE TYPE: nucleic acid |
| | TOPOLOGY: linear |
| 50 | CLONE: HUNGSO6669 |

| | SEQUENCE DESCRIPTION: |
|----|---|
| | GATCCCAGTG TCTGAGTGAA CTAACAGTCC TGCTTTCAGC CACCATTTGT ACAAGACACC 6 |
| 5 | CAGCACTGAA AGTCCCGCTG CCAGGAGCAA GGGATTCTTT GGAAGCACCC GCCCTTTGTG 12 |
| | CCTTGTTGGG GGAAACCGGT GACGCAGTAG TGAGTGTGGA TACACCAGAG TTTGCATTGG 18 |
| | AAGGAATGAG TGTCACGTGG GGAGGGAAGG GGCCAGTGGA CCTTTTGTAA GCTTTCCACT 240 |
| | CAATAAAATG AACCTGTATG GCAAA 265 |
| 10 | SEQ ID NO:5611 |
| | SEQUENCE LENGTH: 138 |
| | SEQUENCE TYPE: nucleic acid |
| | TOPOLOGY: linear |
| 15 | CLONE: HUNGSO6670 |
| | SEQUENCE DESCRIPTION: |
| | GATCCATGTT GAACAATACA TGTAGGTTCT TTTTCCACGC AATGTAAGAN CATGATATAC 60 |
| | TGTACGTTGG AAAGCATTTA CCTTATTTAT ATACCTGAAT GTTCCTACTA CACAAATAAA 120 |
| | CATATATTAA ATTCTAAA 138 |
| 20 | |
| | SEQ ID NO:5612 |
| | SEQUENCE LENGTH: 160 |
| | SEQUENCE TYPE: nucleic acid |
| 25 | TOPOLOGY: linear |
| | CLONE: HUMGS06672 |
| | SEQUENCE DESCRIPTION: |
| | GATCTGTCAT GCCCCACCGC CACCCCTACT CCCTTCAACC CTCCCTCTT CTGCCCATTT 60 |
| | CCTCCCACCC CCTCACTCCC ATTTCCTAGC AAAATCAGAA GATTGTGAAG AGGCCGGCTT 120 |
| 30 | CAACAAAATN GGATAAANAN ATAATTITTT AAAACTTAAA 160 |
| | SEQ ID NO:5613 |
| | SEQUENCE LENGTH: 217 |
| | SEQUENCE TYPE:nucleic acid |
| 35 | TOPOLOGY: linear |
| | CLONE: HUMGS06673 |
| | SEQUENCE DESCRIPTION: |
| | GATCCTATGT NCTGCTTGCA CAGAGGCCTT TGGATTTTAA CCCAGGAGNT TCGNGAGNTG 60 |
| 40 | AGAGCTGCCC TGTCTTTNAT TGAGCCTTAG CATTTCCCTC TCAGGCTTCC TCTCAAGCTC 120 |
| | AAGGAACTCA CCCCCAGATA AGAAGCTGGT GCCTCTTGTC TCTCTNATTT CAGAAACGGA 180 |
| | CTTTCTNATC ATGCTTTCCT ATGGTGGGTA TGNGNNN 217 |
| | SEQ ID NO:5614 |
| 45 | SEQUENCE LENGTH: 109 |
| | SEQUENCE TYPE:nucleic acid |
| | TOPOLOGY: linear |
| | CLONE: HUMGS06674 |
| 50 | SEQUENCE DESCRIPTION: |
| | GATCCCAGAA TTCAACCTCT ATTTATACAT COLTAATCTA NTTACCTAAT TTTTCCCTTA |

| | AATGANCTTN TTGGGTTAGC | TTNCGTAAAT | GNTATAATTT | TTACTGTTN | | 109 |
|----|---|------------|------------|------------|-------------|------|
| | | | | | | |
| | SEQ ID NO:5615 | | | | | |
| 5 | SEQUENCE LENGTH: 267 SEQUENCE TYPE: nucleic | aaid | | | | |
| | TOPOLOGY: linear | aciu | | | | |
| | CLONE: HUMGS 06675 | | | | | |
| | SEQUENCE DESCRIPTION: | | | | | |
| 10 | GATCCCCAGC TGGACTCCCC | ACCCCCTGGC | TTCCCCACCT | CTCCAGGNGT | CAAAGGTGAA | 60 |
| | CCGAGTCCAG TATTAGCTGA | ATGTCATTTC | GTACACCACA | GCTCAGTCAG | CCCATGGGCT. | 120 |
| | TCGTGAACTT TGCTCCAACA | CACTGATGTG | TGGGCTTCCC | ACAGCAGGAC | TGACTTCCCC | 180 |
| | CTTTCTGTTG TTTGCACATN | CCCCTCTTAC | TGTACTGTCA | ATAGATATTT | TTGAGATTTA | 240 |
| 15 | TTTTTAAATA AATATTCAAC | TTGCAAA | | | | 267. |
| | SEQ ID NO:5616 | | | • . | | |
| | SEQUENCE LENGTH: 61 | | | | | |
| | SEQUENCE TYPE:nucleic | acid | | | | |
| 20 | TOPOLOGY:linear | | | | | |
| | CLONE: HUMGS06676 | | | | | |
| | SEQUENCE DESCRIPTION: | | | | | |
| | GATCAATAAT ATATAAAATN | TGAGTGTGGG | TTTGTATCTA | ATAAAGTATG | CCAACACCAA | |
| 25 | A | | | | | 61 |
| | SEQ ID NO:5617 | | | | | |
| | SEQUENCE LENGTH: 330 | | | | | |
| | SEQUENCE TYPE: nucleic | acid | | | | |
| 30 | TOPOLOGY:linear | | | | | |
| | CLONE: HUMGS06677 | | | | | |
| | SEQUENCE DESCRIPTION: | | | | | |
| | GATCTTGAGG CCCAACATGC | TTGACTCTGC | CCAAAAGTCT | CCTTCCTCAG | CAGGATGCAG | 60 |
| 35 | CCTATTACAC TCAGCACAGN | | | | | |
| 33 | GCAACCAACA AAAGGATAGT | | | | | |
| | AGTCTTACCA TTATTCACAA | | | | | |
| | ATATCCCTTC AACGTTCTAT | | ATGTTTCTTA | GTGCTAATTA | | |
| | TCTATTGACA NTNTGACAAA | GGGTAAGAAA | | | | 330 |
| 40 | OPA IN NO FOLO | | | | | |
| | SEQ ID NO:5618 | | | | | |
| | SEQUENCE LENGTH:84 SEQUENCE TYPE:nucleic | | | | | |
| | TOPOLOGY: linear | acia | | | | |
| 45 | CLONE:HUMGS06678 | | • | | | |
| | SEQUENCE DESCRIPTION: | | | | | • |
| | GATCCCAGGN TTCTGCGGAC | CGACGATACG | TTTAAATGTT | GTTCTAGTAA | ATATTCTTGA | 60 |
| | ATGTATTAAA ATGGCTGAAA | | | | | 84 |
| 50 | | • | | | | • |

| | SEQ ID NO:5619 SEQUENCE LENGTH:244 SEQUENCE TYPE:nucleic acid |
|----|---|
| 5 | TOPOLOGY:linear CLONE:HUMGS06679 |
| | SEQUENCE DESCRIPTION: GATCGTGTTC TNTAGATGAA ACCATCAAGA ACCCCCGCTC GACTGTGGAT GCTCCCACAG 60 |
| | CAGCAGGCCG GGGCCGTGGT CGTGGCCGCC CCCACTGAGA GGCACCCCAC CCATCACATG 120 |
| 10 | GCTGGCTGGC TGCTGGGTGC ACTTACCCTC CTTGGCTTGG |
| | GGGGTAGTAA TTGGCCCACT CTNTTCTTAC TGGAGGCTAT TTAAATAAAA TGTAAGACTT 240 |
| | CAAA 244 |
| 15 | SEQ ID NO:5620 |
| | SEQUENCE LENGTH: 102 |
| | SEQUENCE TYPE:nucleic acid |
| | TOPOLOGY:linear CLONE:HUMGS06680 |
| 20 | SEQUENCE DESCRIPTION: |
| | GATCTTCATT AGTCAAGNTT TAGTTATTTN GTTGGCTTTT CCATGTAGAT TTCCAAGTGA 60 |
| | CATTAACATA CTTTNATTAA AGAAAATTTG GAGACTGTTN NN 102 |
| | SEQ ID NO:5621 |
| 25 | SEQUENCE LENGTH: 71 |
| | SEQUENCE TYPE:nucleic acid |
| | TOPOLOGY: linear |
| 20 | CLONE: HUNGS06681 |
| 30 | SEQUENCE DESCRIPTION: GATCGGGCCC CATGTCTGTG CTGTCTAGTT TGTGTTCAAA ATGTCAGAAT AAACACAGAA 60 |
| | GATCGGGCCC CATGTCTGTG CTGTCTAGTT TGTGTTCAAA ATGTCAGAAT AAACACAGAA 60 TAAATGTTAA A 71 |
| | |
| 35 | SEQ ID NO:5622 |
| | SEQUENCE LENGTH: 269 |
| | SEQUENCE TYPE:nucleic acid TOPOLOGY:linear |
| | CLONE: HUMGS06682 |
| 40 | SEQUENCE DESCRIPTION: |
| | GATCTTTTAA AAAAGTTAAA GGACATCCTA GAGCCTTAAT AGTTAAGAAG NGTTAAATTA 60 |
| | TCAAGCCTAT TTGTGCATTT CCTTTTNTTG AAAAAGGTAA GTTGCTGATT AAGTCTAATT 120 |
| | GGAATTGATA ATTCCATAGT CTTAGATTAN NNTGAGGATA TTTCCTCCTA GATTTCCTCA 180 TGTNATGCCA TGCATTTATA TATCTNACCA TTAATTTCAC ACTAAGGATG CTTCACCATA 240 |
| 45 | TAATAANNGG TGCANGNTGG AAGCAANNN 269 |
| | |
| | SEQ ID NO:5623 |
| 50 | SEQUENCE LENGTH: 375 SEQUENCE TYPE: nucleic acid |
| ΨU | SEMBERGE TILETRACIETE SETA |

| | TOPOLOGY:linear CLONE:HUMGSO6683 SEQUENCE DESCRIPTION: | | | | , | |
|-----|--|------------|------------|------------|------------|-----|
| 5 . | GATCTCCTTT TCCAGTGCTG TCCTATATNC AGTTTCCTGT | AATTTAATTG | AAGAAAATG | CATCCAAATN | AAGACTTTAT | 120 |
| | TATTAACNGA CCAGATNGCA | | | | | |
| | TAACTITTIN GGGCAAAGTT | | | | | |
| 10 | GGNAAAAAN TCACTTTTGA GTGAAATGGT TTAAATGTGT | | | | | |
| | GNGTGGGTAN TTGGN | Nudacicuix | ATUACIGITI | IMIUUIICO | | 375 |
| • | SEQ ID NO:5624 | | | | | |
| 15 | SEQUENCE LENGTH: 54 | | | | | |
| | SEQUENCE TYPE:nucleic | acid | | | | |
| | TOPOLOGY:linear CLONE:HUMGS06684 | | | • • | | |
| | SEQUENCE DESCRIPTION: | | | | | |
| 20 | GATCTGATAA CTTGAATTCA | GAATATTAAG | AAAATGAAGT | AACTNATTTT | CAAA | 54 |
| | SEQ ID NO:5625 | | | | | |
| | SEQUENCE LENGTH: 182 | | | | | |
| 25 | SEQUENCE TYPE: nucleic | acid | | | | |
| | TOPOLOGY:linear | | | | | |
| | CLONE: HUNGSO6685 | | | | | |
| | SEQUENCE DESCRIPTION: | | | • | | |
| 30 | GATCTGTTTT TATAAAGTGC | | | | | |
| 50 | TTGGATACAG GATGGACATA | | | | | |
| | TCTCTCGACC TGACTTAGTG | ATAGAGGTAT | ATTAAAGTNT | TCCACTAGCA | TGGTAGATTA | |
| | AA | | | | | 182 |
| 35 | SEQ ID NO:5626 | | | | | |
| | SEQUENCE LENGTH: 367 | . , | | | | |
| | SEQUENCE TYPE:nucleic TOPOLOGY:linear | acid | | | | |
| | CLONE: HUMGS06686 | | | | | |
| 40 | SEQUENCE DESCRIPTION: | | | | | |
| | GATCCTATGG NTTTTCCCGG | CTGGTTGCCA | CTACTGTACA | ACATTCAGTG | CCCACATCCA | 60 |
| | TCTNTGCCAT TAAGCTTTTT | | | | | |
| | ATTTGGGAAG TTGGAAAGAA | | | | | |
| 45 | TAGATAGANT CAGCCCTCAN | | | | | |
| | CAAANTTAGT AGACATCCAA | GAGGCACATA | TTAGGGCCAA | AGATAGCATC | ANCTGTNTTT | 300 |
| | GAGGGANCTG TAGTTTTGCG | CATTTTNATG | NCATTTTTAT | AAAGGTACTG | TNATTNTTTC | 360 |
| | ATTGANN | | | | | 367 |
| 50 | SEQ ID NO:5627 | | | | | |

| | SEQUENCE LENGTH: 336 | | | | | |
|----|-------------------------|------------|-------------|------------|--------------|-----|
| | SEQUENCE TYPE: nucleic | acid | | | | |
| | TOPOLOGY: linear | | • | | | |
| 5 | CLONE: HUMGS06687 | | | | | |
| | SEQUENCE DESCRIPTION: | | | | | |
| | GATCTAGTTT GACTTTCTAG | TTAGTGGTGT | TTTGAAGAGG | GTATTTTATT | GTTTTTTAAA | 60 |
| | AAAAGGTTCT TAAACATTAT | | | | | |
| | TTTATTGTAA TGTATTCTAA | ATTAATGCAG | AACCATATGG | AAAATTTCAT | TAAAATCTAT | 180 |
| 10 | CCCCAAATGT NCTTTCTGTA | TCCTNCCTTC | TACCTATNAT | CCTGATTTTC | AAAAATGCAG | 240 |
| | TTAATGTACC ATTTNANNTG | CTTGATGAAG | GGAGCTCTAT | TGCCNTTANC | AGNAATTGTN | 300 |
| | GCTAAGGTAA TTCCNAATAG | | | | | 336 |
| | | | | | | ••• |
| 15 | SEQ ID NO:5628 | | | | | |
| | SEQUENCE LENGTH: 364 | | | | | |
| | SEQUENCE TYPE:nucleic | acid | | ě | | |
| | TOPOLOGY: linear | 2022 | | | | |
| | CLONE: HUMGS06688 | | | • | | |
| 20 | SEQUENCE DESCRIPTION: | | | | | |
| | GATCTTCTTG ACCTTCTCCA | TCATCGCCAT | CCTTTCCCAA | AGGCCAAGGA | AGTGACCTGC | 60 |
| | CTGCTGGCAT TGGCCAGACC | | | | | |
| | GTCAATGCAG TTTTTATCAG | | | | | |
| 25 | CCCCATGINI GACCCITGIN | | | | | |
| 20 | TCCTAATGTA TCTAGTGTGT | | | | | |
| | GTTTTAATTG ACTGTNTTNT | | | | | |
| | GGTN | ooimimumoi | 41121441114 | ntunduona | oconomicii | 364 |
| | •••• | | | | | 001 |
| 30 | SEQ ID NO:5629 | | | | | |
| | SEQUENCE LENGTH: 347 | | | | | |
| | SEQUENCE TYPE: nucleic | acid | | | | |
| | TOPOLOGY: linear | 4014 | | | • | |
| 25 | CLONE: HUMGS06689 | | | | | |
| 35 | SEQUENCE DESCRIPTION: | | | | | |
| | GATCCCGTGT GCCACCAGGA | GGGAGTGGCA | GCTATAGTCT | GGCACCAAAG | TCCAGGACAC | 60 |
| | CCAGTGGGGT GGAGTCGGAG | | | | | |
| | TGACCCAGGG TGGGGACAGG | | | | | |
| 40 | CTGTGGCCAG TACTCGGGAC | | | | | |
| | TGTCTTTGCT GCAGAACTGA | | | | | |
| | GACTGATGTC AGAGGCCCCA | | | | 011,01001.21 | 347 |
| | and and and and addoord | 10000000 | 001110000 | 7011700 | | • |
| | SEQ ID NO:5630 | | | | | |
| 45 | SEQUENCE LENGTH: 318 | | | | | |
| | SEQUENCE TYPE:nucleic | acid | | | | |
| | TOPOLOGY: linear | 2014 | | | | |
| | CLONE: HUNGSO6690 | | | | | |
| 50 | SEQUENCE DESCRIPTION: | | | | | |
| | | | | | | |

| | GATCAAGGTG TGAATAACTG | AAGAAAATAA | CTTGCTGGCT | ATATAGGAAA | ATGCTGTGGA | 60 |
|----|------------------------|------------|------------|------------------|------------|-----|
| | AATGAACTGT GTATATACTT | CTGGGAGGAA | CAAATTTAAT | CATTTCTCCT | GTTAAGCACT | 120 |
| | AATCAGTATA GTGCAACTCC | TGGTTCTGTN | CTGTATTTNA | TATGCAACAT | ATATGCTTTA | 180 |
| 5 | ATATTTNNNT GTTTGTNCAT | TAATATTTNC | AATTTGTTTA | ACCACTTTGC | TGCTAAGATT | 240 |
| | TTNCCGTCCC ATTCCCATTT | NTCCCTTTAC | AATNNTAAAC | ANGTTTCTTC | ATTAAANNCT | 300 |
| | ATGGTGATGA AAAANAAN | | | | | 318 |
| | | | | | | |
| | SEQ ID NO:5631 | | | | | |
| 10 | SEQUENCE LENGTH: 185 | | | | | |
| | SEQUENCE TYPE:nucleic | acid | | | | |
| | TOPOLOGY: linear | | | | | |
| | CLONE: HUMGS06691 | | | | | |
| 15 | SEQUENCE DESCRIPTION: | | • | | | |
| | GATCTGTGGG, TGTTTTTAAA | AAAACTCAAC | CTATCTGGTG | ATTTATTTT | ATGGATAAAA | 60 |
| | ATGTAATTTT CCTAAGGTAG | CAACTTATTT | CCAAATTAAT | ATAGATGANA | AATAGATNCC | 120 |
| | ANTINGACTA AATIGAAAGC | TTTTNNTCCT | ATATTTNCAT | AGCCTTTGAG | AATATTGNTN | 180 |
| | AGTGN | | | | | 185 |
| 20 | | | • | | | |
| | SEQ ID NO:5632 | | | | | |
| | SEQUENCE LENGTH: 130 | | | | | |
| | SEQUENCE TYPE:nucleic | acid | | | | |
| 25 | TOPOLOGY: linear | | | | | |
| | CLONE: HUMGS06692 | | | | | |
| | SEQUENCE DESCRIPTION: | | | | • | |
| | GATCAAATAA ACTCANTTTT | TTATGGTTAC | TGTAAAAAGA | CTGTNTAAGN | CAGCTCAGCA | 60 |
| | CCATGCTTCT NGTAAAAGCA | GCTTCANTTA | TCCACTGGGG | TTATCTTTTG | ACAACTTGCC | 120 |
| 30 | ATTATCTGNN | | | | | 130 |
| | | | | | | |
| | SEQ ID NO:5633 | | | | | |
| | SEQUENCE LENGTH: 123 | | | | | |
| 35 | SEQUENCE TYPE:nucleic | acid | | | | |
| | TOPOLOGY: linear | | | | • | |
| | CLONE: HUMGS06693 | | | | | |
| | SEQUENCE DESCRIPTION: | | | | | |
| | GATCTTAACA AGCTTAAAAA | AGAATTTAT | GACCAGAATC | CAACAAGAGC | TCTATTTTGG | 60 |
| 40 | AATTGTGCCC AAGTTGGTGA | TGTTTACTCT | AAAATTAATA | ATAAAACTAC | TTGTAAGCAC | |
| | AAA | | · | | | 123 |
| | | | | | | |
| | SEQ ID NO:5634 | | | | | |
| 45 | SEQUENCE LENGTH: 235 | | | | | |
| | SEQUENCE TYPE:nucleic | acid | | | | |
| | TOPOLOGY: linear | | | | | |
| | CLONE: HUNGS 06694 | | | | | |
| | SEQUENCE DESCRIPTION: | | | | | |
| 50 | GATCTGAACT GCCTCCTCCT | TTCTCTGGCC | TCTNCCCCCT | TCCCTCTTCT | CITCAGCTAG | 60 |

| | GCTAGCTGGT TTGGAGTA | GA ATGGCAACTA | ATTCTAATTT | TAATTTATTA | AATATTTGGG | 120 |
|----|----------------------|---------------|------------|------------|------------|-----|
| | GTTTTGGTTT TAAAGCCA | GA ATTACGGCTA | GCACCTAGCA | TTTCAGCAGA | GGGACCATTT | 180 |
| | TAGACCAAAA TGTACTGT | TA ATGGGTTTTT | TTTAAAATT | AAAAGATTAA | ATAAA | 235 |
| 5 | | | | | | |
| | SEQ ID NO:5635 | | | | | |
| | SEQUENCE LENGTH: 250 | 1 | | | | |
| | SEQUENCE TYPE: nucle | ic acid | | | | |
| | TOPOLOGY: linear | | | | | |
| 10 | CLONE: HUMGS06696 | | | | | |
| | SEQUENCE DESCRIPTION | N: | | | | |
| | GATCACGCTA CTGCACTC | CA GTCTGGGCAA | CAGAGCAAAA | TCCTATCTCA | TATATAAAA | 60 |
| | ATATATTATC CAGCCCCA | AA TGTTTATGGG | GTTGTTATTG | ATGAACCCTG | CATTAAACAA | 120 |
| 15 | TCCCACAGTC GGTGCTGC | GG TGAGCCGTGA | TGGGTACCAC | TNCATTCCAG | CCTGGGTGAC | 180 |
| | AGANTGAGAC CCTGTCTN | NA AAAAAAANGT | NNAANTTGTT | TTCCCNATAT | TTTGGNNGGA | 240 |
| | TTNGTGGGGN | | | | | 250 |
| | | | | | | |
| | SEQ ID NO:5636 | | | | | |
| 20 | SEQUENCE LENGTH: 131 | | | | | |
| | SEQUENCE TYPE:nucle | ic acid | | | | |
| | TOPOLOGY:linear | | | | | |
| | CLONE: HUMGS06697 | | | | | |
| 25 | SEQUENCE DESCRIPTIO | N: | | | | |
| | GATCTTGTGT ATTTTTGT | | | | | 60 |
| | GTGACCACAA ATATTATG | CA ATGCACCATT | TGTTTTTAT | TTCATTAAAG | GAAGTTTAAT | 120 |
| | TTAAATTGAA A | | | | | 131 |
| | | | | | | |
| 30 | SEQ ID NO:5637 | | | | | |
| | SEQUENCE LENGTH: 58 | | | | | |
| | SEQUENCE TYPE:nucle | cic acid | | | | |
| | TOPOLOGY: linear | | | | | |
| 35 | CLONE: HUMGS06698 | | | | | |
| | SEQUENCE DESCRIPTION | | | | 00.00 | |
| | GATCTTAATG GGCAGGGT | TA AGAAAGITAI | TTAAAATAAA | GITACCIATI | CIACIAAA | 58 |
| | SEQ ID NO:5638 | | | | | |
| | SEQUENCE LENGTH: 250 | , | | | | |
| 40 | SEQUENCE TYPE: nucle | | | | | |
| | TOPOLOGY: linear | ic aciu | | | | |
| | CLONE: HUMGS06699 | | | | | |
| | SEQUENCE DESCRIPTION | ·N· | | | | |
| 45 | GATCAGAGTG ATGTGTTA | | AAGGGTGATC | TOATAAAGTO | ATTGGGTCGT | 60 |
| | GCTTTATGTT GGCAAAAA | | | | | |
| | GAGATTGGGA GACTGGGG | | | | | - |
| | ANTATACTTG CNATGTTC | | | | | |
| | ATAAACNTTN | | | | | 250 |

| | SEQ ID NO:5639 |
|-----|--|
| | SEQUENCE LENGTH: 354 |
| | SEQUENCE TYPE: nucleic acid |
| 5 | TOPOLOGY: linear |
| | CLONE: HUMGS06700 |
| | SEQUENCE DESCRIPTION: |
| | GATCTTGTTA TTGATTAACC ATTTTCTTAT GCCTTGCTAT TGACATATTC ATGCTCTTTC 60 |
| 10 | TACGTCTAGT GGCTGAAAAT NTTTGCATTT GTTCATTTGA CTAATGGTGT GATTTTNGTT 120 |
| ,,, | TCTATATTAT NAGACCTGTA ATGTTTTAAA ATGTATTTNA TTAAATTTGG ACTGGATGTA 180 |
| | TGTCTCTAGC AATACGAGGT ACTTTCTAAA CTATTAAGGG AGGGGTTGTA TCCTCATGTT 240 |
| | GAGATAAGAT GATGGTCGTT TAANTTINGC AATTITITIT GGCCTGCAGG GATATTITGT 300 |
| | GTTTATGTGT CCAAAANNGG ANTAANTTGG CATTCTTGTG CCAAANGTTG TTNN 354 |
| 15 | |
| | SEQ ID NO:5640 |
| | SEQUENCE LENGTH: 342 |
| | SEQUENCE TYPE:nucleic acid |
| 20 | TOPOLOGY: linear |
| 20 | CLONE: HUNGS06701 |
| | SEQUENCE DESCRIPTION: |
| | GATCTGCATT CTGTAAAAGA GGTACTTTCC CATGATGTAG GCATGAAGTG GTGCCAGTAA 60 |
| | GCGTAGAGCG GAAATNTTGA CTTTAGTTAA CATTGGGTNT AGCATTTCCA GTGCAGCATT 120 |
| 25 | ATCAGTGGGC CTTTAAAAAT ACTTCGTAAG TACATTAGCT TTCACTTTGT NGTNAAATTA 180 |
| | TAGCAGACTC ATTATAGAGA ACAAGTTTGC CTTGATTTNN TITAAAATGA CTTCTGCTAA 240 |
| | GCACCCAGAA GATAAANTIG ACATATTITI NITAATNIAAG CATACITITI INGTACAING 300 |
| | TGTNCATTCT TGANTAANAT GNGGTTCTGT GTTGGCTTGT NN 342 |
| | • |
| 30 | SEQ ID NO:5641 |
| | SEQUENCE LENGTH: 272 |
| | SEQUENCE TYPE:nucleic acid |
| | TOPOLOGY: linear |
| 35 | CLONE: HUMGS06702 |
| | SEQUENCE DESCRIPTION: |
| | GATCCAGTAT AATTNCAGAT TCTNGTGTCC CATCGAAGTT TCTAGCAAGA GGACTGTTGT 60 |
| | CACATTTCCT TCTTGGACTC ATTACTGGTC ACTGAAAACC AGAAGAAGTT GGTGAACCAT 120 |
| | CTAAAGAAGA GAAGGCTGTG GNCAAGTATC TNCGATTCAA CTNTCCAACA AAGTCCACCA 180 |
| 40 | ATATGATGGG GTCACCGGNT TGATTATTTT TTTGCTTCAA AAGCAGTGGN CTGTNTTTNG 240 |
| | GGATTCAAAG NGGGNAAAGT CCANGTANTG GN 272 |
| | OPO IN NO. 5040 |
| | SEQ ID NO:5642 |
| 45 | SEQUENCE LENGTH: 264 |
| | SEQUENCE TYPE:nucleic acid |
| | TOPOLOGY: linear |
| | CLONE: HUNGS06703 |
| | SEQUENCE DESCRIPTION: |

| | GATCGCAATG AATTINTAAA | ATTACTATTT | AANATATTGT | TGAGATTCCA | TTACCTCCAA | 60 |
|----|------------------------|------------|------------|------------|------------|-----|
| | TCAGTCTTGG GACATTAGAA | CAGTGGTATA | ATTAAGACTG | TATGTTTAAA | TTGAGAAATT | 120 |
| | TTGCACAACT TTAACAAGTA | GCAGANCTAA | TTGTNCACTG | ATGGCTTTAA | AGATGAAATA | 180 |
| 5 | NTTCTGTGAA TNCATGANAC | TGTGAGGGNC | TCTNCGTGGT | TGTCTAGGTT | TATTTATATG | 240 |
| | CATNCTCATT AATNAAAGTN | NTTN | | | | 264 |
| | SEQ ID NO:5643 | | | | | |
| | SEQUENCE LENGTH: 247 | | | | | |
| 10 | SEQUENCE TYPE: nucleic | acid | | | | |
| | TOPOLOGY: linear | | | | | |
| | CLONE: HUMGS06704 | | | | | |
| | SEQUENCE DESCRIPTION: | | | | | |
| 15 | GATCTTTTT ATTTTTATAC | ACATGACAAG | ATTTTACATC | AAGAATAGTC | AGTTAAATAG | 60 |
| | TACAAATTTA CATTCATGAG | GAATGTTAAA | AAAAATTCAA | CTAAAAAACC | CACTTTTTCC | 120 |
| | TGTGACCCAT AATCCCACAT | TTTACAGTGC | AGGGGAGAAG | GGGATTAGGG | GGCATNCAAA | 180 |
| | ACAAGTCTCT CCCAAAAAGA | AAAATGCAGG | CATGCAGGGN | CGGCGTAATC | ANTNCCCNGN | 240 |
| | NNNNNN | | | | | 247 |
| 20 | | | | | | |
| | SEQ ID NO:5644 | | | | • | |
| | SEQUENCE LENGTH: 318 | | | | | |
| | SEQUENCE TYPE:nucleic | acid | | | | |
| 25 | TOPOLOGY:linear | | | | | |
| | CLONE: HUMGS06705 | | | | | |
| | SEQUENCE DESCRIPTION: | | | | • | |
| | GATCCATACA GGTTGTGTGT | | | | | |
| | TTCCACGGTT TGGGACAGCA | | | | | |
| 30 | CAAATGTTAT GGCAGGGCCC | AAATAGCATA | GCCACAAGTT | TGGTTTATGT | GGGCATAAAA | 180 |
| | TTCTAACCAA ACCCCAGACA | | | | | |
| | CCTAATAAAG TTGATGAGAG | AGAAGGGGAG | AGGAAGCGAA | CATAAAGCGG | GTCAAGTGTA | |
| | GTGCATCTTT TGTATTGN | | | | | 318 |
| 35 | | | | | | |
| | SEQ ID NO:5645 | | | | | |
| | SEQUENCE LENGTH: 197 | | | | | |
| | SEQUENCE TYPE:nucleic | acid | | | | |
| | TOPOLOGY: linear | | | | | |
| 40 | CLONE: HUMGS06706 | | | | | |
| | SEQUENCE, DESCRIPTION: | | 5.50000100 | | | 00 |
| | GATCTTTTGA CATACTCACT | | | | | |
| | AAGCTATTTT TACAAAGTTT | | | | | |
| 45 | CCCAACGNTT GGNNATGGTT | AAGTAAATIT | טוואוטוטא | CINGIGCINI | CHCHUANIUI | 197 |
| | GTATGATGGC CNTNCAN | | • | | | 131 |
| | SEQ ID NO:5646 | | | | | |
| | SEQUENCE LENGTH:210 | | | | | |
| 50 | SEQUENCE TYPE:nucleic | acid | | | | • |

| 5 | TOPOLOGY:linear CLONE:HUMGSO6707 SEQUENCE DESCRIPTION: GATCCCCCGA ATAACTTTT AGGAGAGCTC TTTTCCCTT AAATGGTTGT NCATGCCTAG TAAGGAGTAA AATTNTTTTA | ATNTNCTCAT GGGATGAAAC | TTNTTTTGTT | ATAAACTGTT | TAAATAGTTC | |
|----|--|--------------------------|------------|------------|------------|-----|
| 10 | SEQ ID NO:5647 SEQUENCE LENGTH:372 SEQUENCE TYPE:nucleic TOPOLOGY:linear CLONE:HUMGS06709 | acid | , | | | |
| 15 | SEQUENCE DESCRIPTION: GATCTGAAAC AGAAACCACC | CTCCGGAACC | GCCCAAGAAA | GGNETGCTCC | ANANACTETT | 60 |
| | CAAGCGGCAG CATCAGAACA | ATTCCAAGAG | TTCGCCCAGC | TCCAAGACCA | GTTTTAACCA | 120 |
| | CCACATAAAC TCAAACCATG | TCAGCTCGAA | CTCCACCGGA | AGCAGCTAGT | TTCGGCTCTG | 180 |
| 20 | GCCTCCAAGT CCACAGTGGA | ACCAGCCCAG | ACCCTTCTCC | TTAGAAGTGG | AAGTAGTGGA | 240 |
| | GCCCCTGCTC TGGTGGGGCT | GCCAGGGGAG | ACCCCGGGAG | CCGGGGAAGG | AAGGCCGTCC | 300 |
| | ATCCCGTCGA CGTAGAACCT | CGNGGTTTTT | TCAAAGNAAT | TTCCACTNNG | GTCTGTTTTT | 360 |
| | NCGAGGGGG NN | | | | | 372 |
| 25 | | | | | | |
| | SEQ ID NO:5648 | | | | | |
| | SEQUENCE LENGTH: 228 | | | | | |
| | SEQUENCE TYPE:nucleic | acid | | | | |
| | TOPOLOGY: linear | | | | | |
| 30 | CLONE: HUMGS06710 | | | | | |
| | SEQUENCE DESCRIPTION: | | | | | |
| | GATCCTTGGT ACCCCTAAAA | AGATTGCCAA | TTTTTTTCAT | CTTTGCCATA | TGGAGGACTG | 60 |
| | TGACAGACTT TGGACAGTGG | CCTCTTGAGT | TCCTCTGCAG | TTTTGACATT | TAGGATTTTG | 120 |
| 35 | TGTCTTTTAA ACTGGAAAAT | CTTCTAGCAT | GTTGGGTTGT | TACAGAGTAT | ATTTTTGTCT | 180 |
| 33 | GCAGCTGTTT GTTGCCCCAT | TCCTAAGAGG | AGTTTATCCA | TCCNGAAA | | 228 |
| | | | | | | |
| • | SEQ ID NO:5649 | | | | | |
| | SEQUENCE LENGTH: 193 | | | | | |
| 40 | SEQUENCE TYPE: nucleic | acid | | | | |
| | TOPOLOGY: linear | | | | | |
| | CLONE: HUMGS06711 | | | | | |
| | SEQUENCE DESCRIPTION: | | | | | |
| | GATCAAAACA AGATTTTCCC | AGTAAGAATA | TACTGGGACA | TAACAAATGA | AAATATTTAT | 60 |
| 45 | ACCAAAATAC CAAAAGTNAT | TCACCTCTTT | AAAATATCCT | ACTATAGTCT | AATTAGTAGC | 120 |
| | TTGTNCAAGA CCAAGTAACC | ATTTTTNNCT | GCNCTTTTGA | NTGATGATTA | GAAATTCAAA | 180 |
| | CAANGTATTT NNN | | | | | 193 |
| | | | | | | |

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SEQ ID NO:5650

| | SEQUENCE LENGTH: 176 | | | | | |
|------|-----------------------|------------|------------------|------------|------------|-----|
| | SEQUENCE TYPE:nucleic | acid | | | | |
| | TOPOLOGY:linear | | | | | |
| 5 | CLONE: HUMGS06712 | | | | | |
| | SEQUENCE DESCRIPTION: | | | | | |
| | GATCCAAGTG CGGAANTCAC | AGAAGGAACG | GATTACAATT | CTCCTNCAGN | TAGGGAACCC | 60 |
| | CTAAGNCCAC AGAAGATAAG | GAGGAAACAA | TACAGAAACT | AGAGACCCTG | GAGAAGAAGG | 120 |
| | AAGAAGAAGT AACTTCAGAG | GAGGATGAGG | AGAAAGAAGA | AGAAGNAGAG | ANGNNN | 176 |
| 10 | | | | | | |
| | SEQ ID NO:5651 | | | | | |
| | SEQUENCE LENGTH: 273 | | | | | |
| | SEQUENCE TYPE:nucleic | acid | | | | |
| 15 . | TOPOLOGY: linear | | • | | • | |
| | CLONE: HUNGS06713 | • | | | | |
| | SEQUENCE DESCRIPTION: | | | | | |
| | GATCAAGTTT TTAAAATTGT | NCTNTTATTG | ATTAAATTA | AGAACTTTTT | GAACTAAAAC | 60 |
| | CAGAAACTCT GCCATAGTTC | ATTGATTTTA | ACATGAAACA | TTTATTTACA | AGATGATATC | 120 |
| 20 | AAGATTACTT TTCACAAAAT | AGGCACATTA | TATCANCACT | TTGCNCTGCT | TTGTAAATTT | 180 |
| | NCCATCCAGG ATTTTGGGGT | GGTATTCATG | TGAAATTAAA | GCAGATTCTC | TAGCAGTTTC | 240 |
| | CTATAGCTAC AGTTTTNNNN | NTNNCCCTGG | NTN | | | 273 |
| | | | | | | |
| 25 | SEQ ID NO:5652 | | | | | |
| | SEQUENCE LENGTH: 231 | | | | | |
| | SEQUENCE TYPE:nucleic | acid | | | | |
| | TOPOLOGY: linear | | | | | |
| | CLONE: HUMGS06714 | | | | - | |
| 30 | SEQUENCE DESCRIPTION: | | | | | |
| | GATCCTGTGT GGAGAGGGAA | TGTGAAATTA | ACATCATTTC | TTTTTGGGAG | AGACTTGTTT | 60 |
| | TGGATGCCCC CTAATCCCCT | | | | | |
| | AAAAAGTGGG TTTTTAAGTT | GAATTTTTT | TAACATTCCT | CATGAATGTA | AATTTGTNCT | 180 |
| 35 | ATTTAACTGA CTATNCTTGA | TGTAAAANCT | TGTCATGTGT | AATAAAATAA | A | 231 |
| | | | | | | |
| | SEQ ID NO:5653 | | | | | |
| | SEQUENCE LENGTH: 228 | | | | | |
| | SEQUENCE TYPE:nucleic | acid | | | | |
| 40 | TOPOLOGY:linear | | | | | |
| | CLONE: HUMGS 06715 | | | | | |
| | SEQUENCE DESCRIPTION: | | | | | |
| | GATCAACATG GTGGAACAAA | | | | | |
| 45 | CTTTTTCCAA TATAAATCCT | | | | | |
| | TTCTATTGTG ACTTTTATGG | | | | AGCATTTATA | |
| | TTTTTCAAAA TTATATGTAT | ACTTAANANT | AANGTANCTT | TATGCAAA | | 228 |
| | | | | | | |
| | SEQ ID NO:5654 | | | | | |

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SEQUENCE LENGTH: 182

| 5 | SEQUENCE TYPE:nucleic TOPOLOGY:linear CLONE:HUMGS06716 SEQUENCE DESCRIPTION: | acid | | | | ٠ |
|----|---|--------------|------------|---------------------|---------------------|----------|
| | GATCACAACT GTGAAAAAAA | ACTGCACACG | CAAAAGACTA | CAGGGAAATA | TGTAATTNAT | 60 |
| | TATNTTGTTT TCTCTCAGTG | | | | | |
| | TTCTTACGGT GTTTGTATTA | CTTTTATAAT | CAAGAACTTT | GTTTTAAAAA | ATAAATCAGA | 180 |
| 10 | AA | | | | | 182 |
| 70 | | | | | | |
| | SEQ ID NO:5655 | | | | | |
| | SEQUENCE LENGTH: 93 | | | , | | |
| | SEQUENCE TYPE:nucleic | acid | | • | | |
| 15 | TOPOLOGY: linear | | | | | |
| | CLONE: HUMGS06717 | | | | | |
| | SEQUENCE DESCRIPTION: | CTCTTCTC 1 1 | TTCT1C1C1C | ********** * | A A A C A A C C A C | 60 |
| | GATCGTAGCT AGTTTGTATT CAGTGAAATG TGTGTGTATA | | | IIIIIIAAAA | AAAUAAUUAU | 60 93 |
| 20 | CAGIGAAAIG IGIGIGIAIA | CAMIAAACIU | AAA | | | 33 |
| | SEQ ID NO:5656 | | | | | |
| | SEQUENCE LENGTH: 331 | | | | | |
| | SEQUENCE TYPE:nucleic | acid | | | | |
| 25 | TOPOLOGY: linear | | | | | |
| | CLONE: HUNGS 06718 | | | • | | |
| | SEQUENCE DESCRIPTION: | | | | | |
| | GATCAACATT TATGACCTAA | GTCAGGTAAT | ATACCTGGTT | TACTTCTTTA | GCATTTTNAT | 60 |
| 00 | GCAGACAGTC TGTTATGCAC | | | | | |
| 30 | CCCAAGTATG CCTTAAGCAG | | | | | |
| | TATGTAATAT AAATTTAAGC | | | | | |
| | GANCATTITG TGGAGTTTGT | | | GANTTAAGTN | TTANNTAAAC | |
| | CTATAATATT TNNNCTGANA | CNCNNGNACC | N | | | 331 |
| 35 | CEO ID NO.ECET | | | | | |
| | SEQ ID NO:5657 SEQUENCE LENGTH:250 | | | | | |
| | SEQUENCE TYPE: nucleic | acid | | | | |
| | TOPOLOGY: linear | 0010 | | | | |
| 40 | CLONE: HUNGS06719 | | | | | |
| • | SEQUENCE DESCRIPTION: | | | | | |
| | GATCAAGCCA AAAAATCCAC | CAGGAANTCC | TACTGACTCT | CTTTNTAAAA | TATAGTCATT | 60 |
| | TAACNGTCAA AAGAGTCCCC | AATAATGTCA | GTNCTAAGAT | TNCCCCTATT | TTTTAAAAAA | 120 |
| 45 | ACAAAGTAAA TGAAGACTCA | AAGAGCAAGT | AACTAGTCTA | AATTAGATAG | TCACAGGTGG | 180 |
| | TAAAGCCAGA AATCTGTCTG | GNCAGTCTAA | CTCTATACAN | CCCAGGCTTT | TAANTATTAG | 240 |
| | AAAGCNNNNN | • | | | | 250 |
| | | | | | | |
| 50 | SEQ ID NO:5658 | | | | | |
| 50 | SEQUENCE LENGTH: 409 | | | | | |

| 5 | SEQUENCE TYPE:nucleic TOPOLOGY:linear CLONE:HUMGS06720' SEQUENCE DESCRIPTION: | acid | | | | |
|------------|--|--------------------------------|------------|------------|------------|-----|
| | GATCTCAGTA TCATACTGAG CCTACCAAAA TTTGTCAATT | TNAATCAAGT | GAGGCAAGTT | GCAAGGGAGC | CAGAGATACG | 120 |
| | TGAAAAAGA AAAGCAGAAA | | | | | |
| 10 | GGCACATTGA CTTACTGATA | | | | | |
| | GCAGTNGTGG TTNTTCCCCG | | | | | |
| | GTCATTTCTG GTGCCAGTTG | | | | CTTCCGAAAN | |
| | NAGGGTGATG ATTNTTNGAA | GNTGGGGTTT | TCCTNACCAN | ATTATTNTN | | 409 |
| 15 | SEQ ID NO:5659 | | | | | |
| | SEQUENCE LENGTH: 56 | | | | | |
| | SEQUENCE TYPE:nucleic | acid | | • • | | |
| | TOPOLOGY: linear | 0010 | | | | |
| | CLONE: HUNGS06721 | | | | | |
| 20 | SEQUENCE DESCRIPTION: | | | | | |
| | GATCTGGAAA AGTCAAGAGA | AGAGAGCAGA | AAGCAGGCTC | TTGCTGCTAA | AAGAAA | 56 |
| | | | | | | |
| | SEQ ID NO:5660 | | | | | |
| 25 | SEQUENCE LENGTH: 69 | | | | | - |
| | SEQUENCE TYPE: nucleic | acid | | | | |
| | TOPOLOGY: linear | | | | | |
| | CLONE: HUMGS06724 | | | | | |
| 30 | SEQUENCE DESCRIPTION: | | | | | |
| 00 | GATCTAAAGA TGATGGAAAA | CATCAGCTAC | ATTAAATACT | CATAAGCAAA | ATAAAGGCTG | 60 |
| | GCCTGTAAA | | | | | 69 |
| | 000 to No 500. | | | | | |
| | SEQ ID NO:5661 | | | | | |
| 35 | SEQUENCE LENGTH: 208 | • • | | | | |
| | SEQUENCE TYPE:nucleic | acid | | | | |
| | TOPOLOGY: linear CLONE: HUMGS 06725 | | | | | |
| | SEQUENCE DESCRIPTION: | | | | | • |
| 40 | | ****************************** | TTT. T CC | NTCCLCLACO | | ~~ |
| | GATCCAAAGG GAAGGGACTA GAACACCANT GTNATGGACT | | | | | 60 |
| | TCCCATAAAT GTTATTGCTC | | | | | |
| | GAGTAAAAAC AGCNAAAAAN | | INGINGIANI | VOIVOIGGIV | GCIGNIIIAG | |
| 45 | MANAVALIAN OLIMANAVALI | NINNIADA | | | | 208 |
| 70 | SEQ ID NO:5662 | | | | | |
| | SEQUENCE LENGTH: 326 | | | | | |
| | SEQUENCE TYPE:nucleic | acid | | | | |
| | TOPOLOGY: linear | | | | | |
| 5 <i>0</i> | CLONE: HUMGS06726 | | | | | |

| 5 | SEQUENCE DESCRIPTION: GATCTGAAAA AAAAGTTTCA TGGGATACTA TAGACTACTG TATATTTGAA GAGAGANTAC | AGAATTTCAG | AAATTGAGAA | CAATTTCATA | ATAAAACGGC | 120 |
|----|--|--------------------------|------------|------------|------------|-----|
| | ATTTNATGAG ACTTTTGTG CTNTTTNTTA NGTCTTTAAC ATAANTCATT NTATATNTNA | GGAACAGAAG AGGGGTGTNT | GTCTTCAAAT | TGTAAAATGT | AAAGNTTGCN | 240 |
| | SEQ ID NO:5663 SEQUENCE LENGTH:227 SEQUENCE TYPE:nucleic TOPOLOGY:linear | acid | | | | |
| 15 | CLONE: HUMGS06727 SEQUENCE DESCRIPTION: GATCTGCACA GTTTGGTTTT | | | | | |
| | TATTAAAAGA AAGNTATTCT | | | | | |
| 20 | CATCCNCTTT TNAATTTACA | | | | TGTTGTATGC | |
| 20 | CAAGNNAATN CTTTTTTATT | GGTGCCTATA | TTGTCACANT | TNTNTTN | | 227 |
| | SEQ ID NO:5664 SEQUENCE LENGTH:324 | | | | | |
| 25 | SEQUENCE TYPE:nucleic | acid | | | | |
| | TOPOLOGY: linear | - | | | | |
| | CLONE: HUMGSO6728 SEQUENCE DESCRIPTION: | | | | | |
| | GATCCACCCT CCTCGGCCTC | CCALAGEGCE | CACCATTACA | GCCATGAGCC | ACCACAGCTG | 60 |
| 30 | GCCCCCTTCT NTTTTATGNT | | | | | |
| | ATTTTGGGTA ATCTGTCTCT | | | | | |
| | AGTATANTTN CCATATAAAT | | | | | |
| | GGACATCTAG GTTCCAATTC | | | | | |
| 05 | ANCAATTTCT ANTTGGGGTT | | | ••••• | - | 324 |
| 35 | | | | | | |
| | SEQ ID NO:5665 | | | | • | |
| | SEQUENCE LENGTH: 149 | | | | | |
| | SEQUENCE TYPE:nucleic | acid | | | | |
| 40 | TOPOLOGY: linear | | | | | |
| | CLONE: HUMGS06730 | | | | | |
| | SEQUENCE DESCRIPTION: | | | | | |
| | GATCCTTCCA CCTTGGCCTC | | | | | |
| 45 | AAAATATTTA TATTTACCTG | | TTGATTTGGG | GGCTAGGGAG | TTCTTAAAAC | |
| | AACAATAAAA AATCTTCTGT | GGCTGCAAA | | | | 149 |
| | SEQ ID NO:5666 | | | | | |
| | SEQUENCE LENGTH: 236 | | | | | |
| 50 | SEQUENCE TYPE:nucleic | acid | | | | |
| | | | | | | |

| | TOPOLOGY: linear CLONE: HUMGS067: | 31 | | | | | |
|----|--------------------------------------|---------|------------|------------|------------|------------|-----|
| 5 | SEQUENCE DESCRI | | | | | | |
| | GATCACAGTC TTG/ | | | | | | 60 |
| | CTGCCAGTGG TTA | | | | | | |
| | ATGTTCTGAC CTG1 | | | | | | |
| | IUIIAAIAAA AIUA | WYIONI | INCITITAN | LINAANIUAA | AAANUIAAAA | лалаал | 236 |
| 10 | SEQ ID NO:5667 | | | | | | |
| | SEQUENCE LENGTH | ł: 101 | | | | | |
| | SEQUENCE TYPE: | nucleic | acid | | | | |
| | TOPOLOGY: linear | • | | | | | |
| 15 | CLONE: HUMGS0673 | 32 | | | | | |
| | SEQUENCE DESCRI | PTION: | | | | | |
| | GATCGCGCCA CTGC | | | | | AAACAAACAA | 60 |
| | ACAAAAGAT TTTA | TTAAAG | ATATTTTGTT | AACTCAGTAA | A | | 101 |
| 20 | | | | | | | |
| | SEQ ID NO:5668 | | | | | | |
| | SEQUENCE LENGTH | | | | | | |
| | SEQUENCE TYPE:n TOPOLOGY:linear | | acid | | | | |
| 25 | CLONE: HUMGS 0673 | | | | | | |
| 20 | SEQUENCE DESCRI | - | | | | | |
| | GATCCATGGA CCAT | | CATGGCGCCT | GGTTTCAGAC | AACCTGAATC | AAATCTTAGG | 60 |
| | GGTGGGGCTT TGGG | | | | | | |
| | GTTTGAGAAC CACT | | | | | | |
| 30 | GCTGAGCTGN GANG | NTAATA | TATTTTNNTT | GTCANTGCCA | TTACCAGNTA | TGCACTGNTT | 240 |
| | CTTTTATACC TACA | NTTTN | | | | | 259 |
| | SEQ ID NO:5669 | | | | | | |
| 35 | SEQUENCE LENGTH | :218 | | | | | |
| | SEQUENCE TYPE:n | ucleic | acid | | | | |
| | TOPOLOGY: linear | • | | | | | |
| | CLONE: HUMGS0673 | 4 | | | | | |
| 40 | SEQUENCE DESCRI | | | | | | |
| 40 | GATCCTGAAG CTTA | | _ | | | | 60 |
| | ATAAAATTTT CAAA | | | | | | |
| | ACAACTTCAA AGCT | | | | CTTTAATTGA | | |
| | CATTTTGATA ATGC | AACANT | AAAGCATCTT | CAGCCAAA | | | 218 |
| 45 | SEQ ID NO:5670 | | | | | | |
| | SEQUENCE LENGTH | . 222 | | | | | |
| | SEQUENCE TYPE:n | | acid | | | | |
| | TOPOLOGY: linear | | | | | | |
| 50 | CLONE: HUNGS 0673 | | | | | | |

| GATCAGATTG AGGTTATGCA TITTTGGCAA GAAAACCACG GCAATGATAT GCCCG | TCTCG 60 |
|---|-----------|
| | |
| GTGCATTTNA TCAGGAGATA CTTGATGTCG ATGTGTCATA TTACTGGTGA TGTTA | ACCTT 120 |
| 5 GGTTAAGGTT AGTAGCTTTC AGGTTTCTCC ATTGTAAAGT TGCTATTACT TCTTA | ATATA 180 |
| ATAGGCTAGG TTGTACTGCT ATAACAAATA TACCTTAGTA AA | 222 |
| | |
| SEQ ID NO:5671 | |
| SEQUENCE LENGTH: 86 | |
| SEQUENCE TYPE:nucleic acid | |
| TOPOLOGY:linear | |
| CLONE: HUMGSO6736 | |
| SEQUENCE DESCRIPTION: | |
| GATCCTTGAA TGAAAAGGAA CCCTCACCAT GGGGCTTACT GTTATAATGT TTCTT | CATTT 60 |
| ACTGTTATTA AAAGATTTAT GAGAAA | 86 |
| | |
| SEQ ID NO:5672 | |
| SEQUENCE LENGTH: 391 | |
| SEQUENCE TYPE:nucleic acid | |
| TOPOLOGY:linear | |
| CLONE: HUMGS06737 | • |
| SEQUENCE DESCRIPTION: | |
| GATCAGAAGC TGCCAGGAAC AAGGAGAAGA CGCTCCCCTT CCTCACCTTC CCACC | |
| ATGGCTTCTC ANTCGGGGAA AAGATACAAC TTAACTTTAA ACCAAGTNTT AAGTT | |
| TATNACATGG GATTAGATGC ACCAAAAACA ATTTCAAGTG ACTGTGGGGC ATTCT | |
| CTGAGAATGT TCAAGAGTCC TGATATGACC TGTTGTTNTT ATCCTAAACA GTGAA | |
| CATCCACCAA ATATATAGGA ATAGAGGGTG ACAGNAAGAT GCTTTCTGAA AGGTA | |
| 30 TATTTGGGGG TNTTGGGTTA CATATNNCTN ATGTNGGNTT TTAANCTATA GCTCT | |
| TANNNTTACT CNATCCATTN CTTGAAAGGA N | 391 |
| SEQ ID NO:5673 | |
| SEQUENCE LENGTH: 210 | |
| SEQUENCE TYPE:nucleic acid | |
| TOPOLOGY:linear | |
| CLONE: HUNGSO6739 | |
| SEQUENCE DESCRIPTION: | |
| 40 GATCCTNTGT ACATGAAATG AAAGGTGCAT CANCTTGGGG GCTGGGAAAC CTGCA | GTATG 60 |
| GNTTTACTNC GTCCCTATCA CTGGTGTGGC TGTGGGCAAA CCACTTATTG CCTGA | |
| CTCACAGGGA TGTTGTGAGG GTTTGATGAG AGAATGAATG TTAATAGGAA TTGG/ | |
| CAAAGCATTA AACACATGTA AACAGGTAAA | 210 |
| | |
| 45 SEQ ID NO:5674 | |
| SEQUENCE LENGTH: 223 | |
| SEQUENCE TYPE:nucleic acid | |
| TOPOLOGY: linear | |
| 50 CLONE: HUNGSO6740 | • |

| | SEQUENCE DESCRIPTION: |
|----|---|
| | GATCTCAAGA AAAAGCAGGA ATTAAATAAG ACAAGGNNCA GATTAANATA CCTTTCCCAG 60 |
| | CAGGGGAAAC AGCAAACTTA AAGGTTCTAA GGCACANGAG AGCATGGCAT ATATGACGAC 120 |
| 5 | CCAAAAGAGT GGCCAGATAT CCAGACATCT AGAAGGTCTA GCTAAGTNCT TAGGAAGTAG 180 |
| | TATAANCAGA NAAGANAAAN TTGTGGCCTC TTTTTTNAAA ANN 223 |
| | |
| | SEQ ID NO:5675 |
| 10 | SEQUENCE LENGTH: 391 |
| | SEQUENCE TYPE: nucleic acid |
| | TOPOLOGY: linear |
| | CLONE: HUMGS06742 |
| | SEQUENCE DESCRIPTION: |
| 15 | GATCATGCAC TGTTGACCAC TGAGCAATCT GTGTNACACT AGAGTTCACA GGGCATTTTA 60 |
| | AGTGTAGACG TGAGTCCTTA AACATATTTN GNTTTCTCTC TCAGGTTTTA AATGTTTCAA 120 |
| | ATGTAATTNT TGCTCATCAG TGCAGTTATC AATGCAATTT NATATTCCTT GAGGGGAGAA 180 |
| | AGNGGGGTCT TATTGTACAT GTCCAAGGGG GGTGATAAGA GTATTANCTG TTTAATTTAA 240 |
| 20 | TTGGANCAAN CCATTGTCTT AACGCAGCCA TGGTTTGANT TTGTCATCTT NGGGCTGACC 300 |
| | GGTGCATGTA AATACAGTAT GCNCTTTGGA TGTAATCCTT NGAAATGNCA GTGTTGNATG 360 |
| | GTAGGTTATC CTTNNGTNAA CCCTTNTCTC N 391 |
| | SEQ ID NO:5676 |
| 25 | SEQUENCE LENGTH: 271 |
| | SEQUENCE TYPE: nucleic acid. |
| | TOPOLOGY: linear |
| | CLONE: HUMGS06743 |
| | SEQUENCE DESCRIPTION: |
| 30 | GATCCCTATA ACTCAAAATA ACTTGTTTGT AAAAGAAAAT TTGTTTACTT ACCCATTAGT 60 |
| | AAGTTCCTGC ATATTCATTA TAAGATGGCA AATCAAACTT TTCTAGGATG AAGACAGCTT 120 |
| | ATNTINAAGT TGTATAGTCT TAGTTGGTTT AGGGTCTCAA TTTTAATTAA TAAAATNCTT 180 |
| | GGTTTTAATT TGCTTGTCCT TTTGAATTCC NGTTTTAATA ATTNTNNNAG NGNGCAAAGN 240 |
| 35 | GATGTTGAAG TTCAGATTAA NCTCTNCTGA N 271 |
| | SEQ ID NO:5677 |
| | SEQUENCE LENGTH: 166 |
| | SEQUENCE TYPE:nucleic acid |
| 40 | TOPOLOGY: linear |
| | CLONE: HUNGSO6744 |
| | SEQUENCE DESCRIPTION: |
| | GATCCTGGAA GTAATCCGGG CACACTTACA TTTGTTGTCA ACAAGAACAA TCCTTTCATC 60 |
| | TTCTTGGGCT TTCACATGAA CAGCCTTAAT AAAAACCGCC AGGACTCCCC AGAAAAGCAA 120 |
| 45 | ATGGTTCTTC ATCTTGACTT CACTTCTTCT GAAAAACTGG AGCAAA 166 |
| | SEQ ID NO:5678 |
| | SEQUENCE LENGTH: 386 |
| 50 | CPONENCE TURE. The coid |

| | TOPOLOGY:linear CLONE:HUMGS06745 SEQUENCE DESCRIPTION: | | | | | |
|----|--|------------|-------------|------------|------------|------|
| 5 | GATCACAAAT TAATGTTGGG | GAAAATAAAG | ATTTAATATT | TCTTTAAATA | GAAAAGAAT | - 60 |
| | TTGGTTTTCC TCGTTTAAGA | | | | | |
| | CAGGACACGN ACCTTCATGG | AAGTCCTTGC | TCTGCGTGGC | ATCTGTCAGC | TTTNCACCTT | 180 |
| | TCATTCTTAT TCTTCACTTT | TGCTGCTGAG | CCTAGCTGTA | CAAACTTNGC | ACTTTCATTT | 240 |
| | GCTAATATAA ATTCAGTTTT | ATTNTACCAT | TTTAGAGACT | ACTAATGGTT | AANTGTAGAA | 300 |
| 10 | GGNGNGGGGT GNACATGTTT | TTATGTNGNG | TGTTTNAAAG | GATATGTTTT | NTNACCCCNT | 360 |
| | GTNATGGTGG CAGCTTTNTN | TTTTTN | | | | 386 |
| | SEQ ID NO:5679 | | | | | |
| 15 | SEQUENCE LENGTH: 260 | | | | | |
| | SEQUENCE TYPE: nucleic | acid | | | | |
| | TOPOLOGY: linear | | | | | |
| | CLONE: HUMGS06746 | | | | | |
| 20 | SEQUENCE DESCRIPTION: | | | | | |
| | GATCCAGGAA GCGGCTGGAG | | | | | 60 |
| | AGACGCATAC CTAGAGGAAC | | | | | |
| | GTTTCGGTTA TCTCTGTCTT TCCTCTTTTG AGGAGTATTT | | | | | |
| | ACATTCATGC AGCAATTAAA | IICCAIIAIU | INITIONIANI | VVIGIIVVII | ICANIAANIU | 260 |
| 25 | ACATIONIUC AUCAMITAAN | | | | | 200 |
| | SEQ ID NO:5680 | | | | | |
| | SEQUENCE LENGTH: 183 | • | | | | |
| | SEQUENCE TYPE:nucleic | acid | | | | |
| 30 | TOPOLOGY: linear | | | | | |
| | CLONE: HUMGS06747 | | | | | |
| | SEQUENCE DESCRIPTION: | | | | | |
| | GATCAACATT CCAGGGTTGG | | | | | |
| 35 | GCTAGTGCTG TAGAGTTCAC | | | | | |
| | CAGCATCATT GCATAATTCT | TGATGGTAAT | AAATTTGAAT | AATCAGATTT | CTTACAAACC | |
| | AAA | | | | | 183 |
| | SEQ ID NO:5681 | | | | | |
| 40 | SEQUENCE LENGTH: 124 | | | • | | |
| | SEQUENCE TYPE:nucleic | acid | | | | |
| | TOPOLOGY: linear | | | | | |
| | CLONE: HUNGS 06749 | | | | | |
| 45 | SEQUENCE DESCRIPTION: | | | | | |
| | GATCTCACTA TAGAGGCATC | | | | | |
| | ATATAGTATG TTTAANCTAT | AGGATGGCAG | GTNCATGANT | NTTGGTTGTA | TTATCCTTTA | |
| | TNTN | | | | | 124 |
| 50 | SEQ ID NO:5682 | | | | | |

| | SEQUENCE LENGTH: 268 | |
|----|---|----|
| | SEQUENCE TYPE:nucleic acid | |
| | TOPOLOGY:linear | |
| 5 | CLONE: HUNGSO6750 | |
| | SEQUENCE DESCRIPTION: | |
| | GATCTGAAGT TGCAGGTTAA GCTTGTNTGG TCAACATTCC AGTGTGGAAA AATAATTTAA 6 | n |
| | ACAATCTTAT TCTCTTAATT CTTTTGGCAA CAAAAACTAT TAGTAATAGC TATTTGGGAC 12 | n |
| | CAGACAAAAT CAGCTTTCAT CTATAATTCA TTGGGGGATAA TGGGAGATTT AGATAATGTA 18 | n |
| 10 | TCCNGATTTA AACCTACCAG TTTGTCCTAC CCCTTANGCG TTTAANATAA ANTATGCANC 24 | 'n |
| | AAATTTGGNG GNANGNNGTG TGNNGTTN 26 | |
| | 7 | ٠ |
| | SEQ ID NO:5683 | |
| 15 | SEQUENCE LENGTH: 127 | |
| | SEQUENCE TYPE: nucleic acid | |
| | TOPOLOGY: linear | |
| • | CLONE: HUNGS06751 | |
| | SEQUENCE DESCRIPTION: | |
| 20 | GATCAATGCA AAAATTGTTA TATATGAACA TATAACTGGA GTCGTCAAAA AGCAAATTAA 60 | ì |
| | GAAAGATTTG GACGTTAGAA GTTGTCATTT AAAGCAGCCT TCTAATAAAG TTNTTTCAAA 120 | |
| | GCTGAAA 127 | |
| | | , |
| 25 | SEQ ID NO:5684 | |
| | SEQUENCE LENGTH: 221 | |
| | SEQUENCE TYPE: nucleic acid | |
| | TOPOLOGY: linear | |
| | CLONE: HUNGSO6752 | |
| 30 | SEQUENCE DESCRIPTION: | |
| | GATCTTTACA ATTACAGTGT AGTAGACAAT TCGGAATTAA TTTGAAACAC ATCACAACAT 60 |) |
| | AACTTGAGAA AATTTCCTAN TGTATATGTA GTGGTAATAA ATGTTTAAAG GCTGCAAGGA 120 | ļ |
| | TTGCATTATA AANNCTGTTT GTNGGCTTTC TAAGTCTTTN ATNCCTGTAT TGGGANTAAN 180 | ļ |
| 35 | CAGATTTNAG AAAATGGATA TAAGCTGANA TGTATATTTN N 221 | |
| | | |
| | SEQ ID NO:5685 | |
| | SEQUENCE LENGTH: 146 | |
| | SEQUENCE TYPE:nucleic acid | |
| 40 | TOPOLOGY: linear | |
| | CLONE: HUNGSO6753 | |
| | SEQUENCE DESCRIPTION: | |
| | GATCATAAAT TTTTCTCAGT GTCCTTTTTG TGTTGAACAC ATATATCTGA AACCTGTATT 60 | |
| 45 | TAACCAGATA TITCTACTCA ACTGAATATA CAAGTGTAAA TITGATTGGA AAATTGTATA 120 | |
| 70 | TTATAAATGA AAATACAATA ATCAAA 146 | |
| | SEQ ID NO:5686 | |
| | SEQUENCE LENGTH: 344 | |
| 50 | CROHENCE TYDE | |

| | TOPOLOGY:linear CLONE:HUMGSO6754 SEQUENCE DESCRIPTION: | | | | | |
|----|--|------------|------------|------------|------------|-----|
| 5 | GATCCACCCA CCTCGACCTC | CCAAAGTGCT | GGGATTACAG | ATGTAAGCCA | CCGTGCCTGG | 60 |
| | CCAAAGTTTT CTAATACCTG | | | | | |
| | TACGTGTCTC TNCAGATTAG | CTTGCATTTC | CTAGAATCTA | ACTTATATAA | TAAAAATT | 180 |
| | ATAGTATATA CCCTTCTTTT | GGCTTTCTTT | ATTCAGCTAT | GTTGTGAGAT | TCATTCATGT | 240 |
| 40 | TGTTTAGAGT ATCAGTTACT | AAGTAGTATT | CCATTTTNGG | CTATATCAAA | NNTNGTTTGN | 300 |
| 10 | CCATTTACCT ATTAANGGGC | ATTTNGCACT | GGNTCCAGNN | TGAN | | 344 |
| | SEQ ID NO:5687 | | | | | |
| | SEQUENCE LENGTH: 132 | | | | | |
| 15 | SEQUENCE TYPE:nucleic | acid | | | | |
| | TOPOLOGY: linear | | | | | |
| | CLONE: HUMGS06755 | | | | | |
| | SEQUENCE DESCRIPTION: | | | | | |
| 20 | GATCTCTGTT TTGACTAAAC | | | | | 60 |
| | AGAATGGTTT AACTTTGTAC | TCTTTGAAAA | ATAATGCTGA | TTTATAAATC | TCTGCCTATA | |
| | NCAGAATGGA AA | | | | | 132 |
| | SEQ ID NO:5688 | | | | | |
| 25 | SEQUENCE LENGTH: 244 | | | | | |
| | SEQUENCE TYPE: nucleic | acid | | • | | |
| | TOPOLOGY:linear | | | | | |
| | CLONE: HUMGS06756 | | | | | |
| 20 | SEQUENCE DESCRIPTION: | | | | | |
| 30 | GATCCTGCTG TGGCACGGGG | | | | | |
| | TCTATTTATT GTAGAGAGTG | | | | | |
| | AAGAGAGGTA ATAAACAGAG | | | | | |
| | CTACTATAAT ATGGCTGGCT | GAANCTTATT | TCCTCTCTNN | GNAATAAATG | TTCTANTGGG | |
| 35 | CAAA | | | | | 244 |
| | SEQ ID NO:5689 | | | | | |
| | SEQUENCE LENGTH: 143 | | | | | |
| | SEQUENCE TYPE:nucleic | acid | | | • | |
| 40 | TOPOLOGY: linear | | | | | |
| | CLONE: HUNGS06757 | | | | | |
| | SEQUENCE DESCRIPTION: | | | | | |
| | GATCTINICI ATACCATITA | | | | | |
| 45 | GTGACATTAA TGCTGATAGA | | CACATATATC | TNACTTGGAĄ | AACTTATAAA | |
| | AATTGTGCTG TCTTTAAAAT | AAA | | | | 143 |
| | SEQ ID NO:5690 | | | | | |
| | SEQUENCE LENGTH: 219 | | | | | |
| 50 | SEQUENCE TYPE: nucleic | acid | | | | |

| 5 | TOPOLOGY:linear CLONE:HUMGS06758 SEQUENCE DESCRIPTION: GATCGCAAAG GGATTGTTCT TATAAAAGTG GCATAAATAA ATGCATCATT TTTAGGAGTA 60 TAGACAGATA TATCTTATTG TGGGGAGGGG AAAGAAATCC ATCTGCTCAT GAAGCACTTC 120 TGAAAATATA GGTGATTGCC TGAATGTCGA AGNTCTACTT TTGTCTATAA AACACTATAT 180 AAATGANTTT TAATAAATTT TTGCTTCAGC ACTTGGAAA |) |
|------------|--|---|
| 10 | SEQ ID NO:5691 SEQUENCE LENGTH:292 SEQUENCE TYPE:nucleic acid | |
| 15 | TOPOLOGY:linear CLONE:HUMGS06759 SEQUENCE DESCRIPTION: GATCTAGATG AGATTACCCA TAGCAGGGAA AATAATTCAT CACCTACCAA AGACTGTACG 60 GAAAGGTGTG TTATTTTCAA AATTGCATT TAGTTTGCAC ACATGTAAAT NATTATCCTA 120 | |
| 20 | TGTTAATCTA ATTGACAATT CANTTAGCTC CGCATCCTAA GACTTAAAAC TAGCAATTCC 180 TATGCAAATC ATCTGCTTAA CTGANCTACA AACGTTTTTC ATTAATTCAT TCTTTGATGA 240 CATATTCCAT GTTATATANT ANTNCANAAT AAAGTTAATA TACTACCCCA AA 292 | |
| 25 | SEQ ID NO:5692 SEQUENCE LENGTH:330 SEQUENCE TYPE:nucleic acid TOPOLOGY:linear CLONE:HUMGS06760 | |
| 30 | SEQUENCE DESCRIPTION: GATCCTCTCG CTTGTTCACT GGGGCATGTA CAGTGGGCAC GGGAAGCTGG AATTCGTATG 60 ACGGAGCTTA TCTGAACTAC ACTTACTGAA CAGCTTGAAG GCCTTTTGAG TTCTGCTGGA 120 CAGGAGCACT TTATCTGAAG ACAAACTCAT TTAATCATCT TTGAGAGACA AAATGACCTC 180 | |
| 35 | TGCAAACAGA ATCTTGGATA TTTCTTCTGA AGGATTATTT GCACAGACTT AAATACAGTT 240 AAATGTGTTA TTTGCTTTTA AAATTATAAA AAGCANAGAG AAGNCTTTGT ACACACTGTC 300 ACCAGGGTTA TTTGCATCCA AGGGAGCTTN 330 | |
| 40 | SEQ ID NO:5693 SEQUENCE LENGTH:143 SEQUENCE TYPE:nucleic acid TOPOLOGY:linear CLONE:HUMGS06762 SEQUENCE DESCRIPTION: | |
| 4 5 | GATCANAGGT CTTGAGGTCT TTACATCTTG ACATATACAC TGAAAAAAAN GGGGGTTGTA 60 TGTATNAATG TGCTACCCAA ACCTNTGGCC GCCACTTTTA AATTCTCAGA TTGCCCTGAA 120 TTTTGNCACT TTNAAATAAT GNN 143 | |
| 50 | SEQ ID NO:5694 SEQUENCE LENGTH:273 | |

| | SEQUENCE TYPE:nucleic TOPOLOGY:linear CLONE:HUMGS06763 | acid | | | | |
|----|--|------------|------------|------------|------------|-----|
| 5 | SEQUENCE DESCRIPTION: | | | | | |
| | GATCTTAATG CTTCTCCTGC | TCTGTAAGCC | TCTNAAGAGC | AATATCTAAT | TAATTATTAC | 60 |
| | TGTAATTTTT TAAAAGGCTT | TAAAGTGCCT | CAGGGGTCCC | CTGAAACTAA | TTTCCTATTT | 120 |
| | CTGGGATTCC CTGGATTCAT | TATATGNNAT | GGTGACATGA | TTAGAGGAAT | TCNTTTTAAG | 180 |
| * | TATGAAANTT GTCCCTTTCC | TNCTTCAGTA | CTTGCCTCCT | NGCTGGCATT | GANTTAACAC | 240 |
| 10 | AGGGACAAAA TTTGGTTAAT | TNNTNATTNC | NAN | : | | 273 |
| | SEQ ID NO:5695 | | • | | | |
| | SEQUENCE LENGTH: 337 | | | | | |
| 15 | SEQUENCE TYPE:nucleic | acid | | | | |
| | TOPOLOGY: linear | | | | • | |
| | CLONE: HUMGS06764 | | | • | | |
| | SEQUENCE DESCRIPTION: | | | | | |
| | GATCTGTACT ACAGGAACCA | AATGTCATGC | GTCATACATG | TGGGTATAAA | GTACATAAAA | 60 |
| 20 | TATATCTAAC TATTCATAAT | GTGGGGTGGG | TAATACTGTC | TGTGAAATAA | TGTAAGANGC | 120 |
| | TTTTCACTTA AAAAAAATGC | ATTACTTTCA | CTTANCACTA | GACACCAGGT | CGAAAATTTT | 180 |
| | CAAGGTTATA GTACTTATTT | CAGCANTTCT | TAGAGATGCT | AGCTAGTGTT | GAAGCTAAAA | 240 |
| | NTAGCTTTAT TTATGCTGGG | | | AAATTTTTNT | AGNGCGAANC | |
| 25 | ATGTGGTGGN TAGCTTGGNN | ATGAANGAAT | TNTGNCN | | | 337 |
| | SEQ ID NO:5696 | | | | | |
| | SEQUENCE LENGTH: 290 | | | | | |
| | SEQUENCE TYPE:nucleic | acid | | | | |
| 30 | TOPOLOGY: linear | | | | | • |
| | CLONE: HUNGS06765 | | | | | |
| | SEQUENCE DESCRIPTION: | | | | | |
| | GATCTAGAAG TTGCAACATT | CGTTTGATAG | GAATTCCAGA | AAAGNAGAGT | TATGAGAATA | 60 |
| 35 | GGGCAGAGGA CATAATTAAA | GAAATAATTG | ATGAAANCTT | TGCAGAACTA | AAGAAAGGTT | 120 |
| | CAAGTCNCGA GATTGTCAGT | | | | | |
| | GCTCCTAGGC ACATCTTGGT | | | | AAATNATAAG | |
| | GGCTNCTAGN GGGNGANGGG | AATTNCNTGC | CAGGGANCAG | GNTCAGTTGN | | 290 |
| 40 | SEQ ID NO:5697 | | | | | |
| | SEQUENCE LENGTH: 393 | | | | | |
| | SEQUENCE TYPE:nucleic | acid | | | | |
| | TOPOLOGY: linear | | | | | |
| | CLONE: HUMGS06766 | | | | | |
| 45 | SEQUENCE DESCRIPTION: | | | | | |
| | GATCATTCCT GTATTAAACT | TTCATATGCC | AAAAGGGTTT | GTCCCGTTTN | ATCTGCCATC | 60 |
| | AGTGTTTGAC CTGTTTAGGG | CAGAGGCAAT | AAGTCAGAAG | TCTTGAAGTT | GAAATAGTTA | 120 |
| | TATGTGTGTC ATTGGACTGG | ATTATAAACA | GCTGTCTTGG | ACTTTCCCTC | TCTTAACACT | 180 |
| 50 | GACTGGTNAT CAGTATCATT | AGTGAAAAAG | NAAGCAAATT | GTTTGTNATC | ATCTCTTTAG | 240 |

| | NCAGGTAAGC TGGAAT | GGGT GGGGCTTTAA | ATAATANAAN | CATGCGCATN | GTTGGCTTGT | 300 |
|----|--------------------|-----------------|------------|------------|------------|-----|
| | GTATGGGCCT NCTCTT | GGGA TTCCTNGTNG | TNATGGGCTT | GGTATTTTGG | GTNCNTGATT | 360 |
| | TTGTCCANNG GCANTN | CCAG GTGGGTGCCA | NCN | | | 393 |
| 5 | | | | | | |
| | SEQ ID NO:5698 | | | | | |
| | SEQUENCE LENGTH: 1 | 76 | | | | |
| | SEQUENCE TYPE:nuc | leic acid | | | | |
| | TOPOLOGY: linear | | | | | |
| 10 | CLONE: HUMGS06767 | | | | | |
| | SEQUENCE DESCRIPT | ION: | | | | |
| | GATCCANGNT AAGAGG | CNCC CCCCCGACCA | GCAGAGGCTC | ATCTTTGCAG | GCAAGCAGCT | 60 |
| | GGAAGATGGC CGCACT | CTTT CTGACTACAA | CATCCAGAAA | GAGTCGACCC | TCAACCTGGT | 120 |
| 45 | CCTGCGCCTA NGGGTT | GCTG TAAATCTTCA | ATCAATGCAA | TNNCNATGCC | CATNAN | 176 |
| 15 | | | | | | |
| | SEQ ID NO:5699 | | | | | |
| | SEQUENCE LENGTH: 1 | 78 | | | | |
| | SEQUENCE TYPE: nuc | | | | | |
| 20 | TOPOLOGY: linear | | | | | |
| | CLONE: HUMGS06768 | | | | | |
| | SEQUENCE DESCRIPT | ION: | | | | |
| | GATCTACTCA GACAGG | ACCT TCGCACCTTI | GCCAGAGTTT | GAGCAGGAAG | AGGATGATGG | 60 |
| | TGAGGTAACT GAGGAC | | | | | |
| 25 | AGATGAGAGA CCAGTA | | | | | 178 |
| | | | | | | |
| | SEQ ID NO:5700 | | | | | |
| | SEQUENCE LENGTH: 2 | 33 | | | | |
| 30 | SEQUENCE TYPE:nuc | leic acid | | | | |
| | TOPOLOGY: linear | | | | | |
| | CLONE: HUMGS06769 | | | | | |
| | SEQUENCE DESCRIPT | ION: | | | | |
| | GATCGTTTCT TTAGAA | | TTTGAATATG | AAATCTTCTC | ATAGCTGCCT | 60 |
| 35 | AAAAAAGACT AGAATG | | | | | |
| | GATAAGATAA AGCAAC | · · | | | | |
| | ATAANTATAC ATTTNI | | | | | 233 |
| | | | | | | |
| 40 | SEQ ID NO:5701 | | | | | |
| 40 | SEQUENCE LENGTH: 3 | 74 | | | | |
| | SEQUENCE TYPE: nuc | leic acid | | | | |
| | TOPOLOGY: linear | | | | | |
| | CLONE: HUMGS06770 | | | | | |
| 45 | SEQUENCE DESCRIPT | TON- | | | | |
| | GATCTTCATC TGACTA | | CTTTATACCC | AGAAAGTTAT | TGATAAGTTC | 60 |
| | ATACATTGTA CGAAGA | | | | | |
| | CTAGCATGGC ATATT | • | | | | |
| 50 | ATCTNGTAGC TTTATO | | | | | |
| 50 | | | | | | |

| | TO THE PERSON OF | |
|----|--|----------|
| | ACAGATTICC ATCCINGTCA CTACCITCAT GCATAGGITT NGCAGTATAG TGGCGCCACT 300 | , |
| | GTTTTGAATC TNATAATTNA TACAGGTCAT ATTANTNTAT NGCCCTTAAA AAANATCAGT 360 |) |
| | TGTTCCAGNG GAAN 374 | ŀ |
| 5 | | |
| | SEQ ID NO:5702 | |
| | SEQUENCE LENGTH: 452 | |
| | SEQUENCE TYPE: nucleic acid | |
| | TOPOLOGY: linear | |
| 10 | CLONE: HUNGSO6771 | |
| | SEQUENCE DESCRIPTION: | |
| | GATCCTCCTG CCTCAGCCTC CTGAGTAGAC GGATTATAGG CACCTTGCCC AGCTTCTATA 60 | ١ |
| | | |
| | GCAGCATTTT TTTCTAACAC CTAAAAAATG GAAACAAGCC AAATGCTCAT CCACTGGTAA 120 | |
| 15 | ATGGATAAAC AAACTGTAGT CTTTCTATAC ACTGGAATAT TTGGCTATAA AANAGANTGA 180 | |
| | NATATTGATA CATGCTACAA CATTGATGAN CTTCAAAAAC ATGCTAAGAG AAAGCCAGTC 240 | |
| | ACAGAANAAT ACATNGTATT CTATAAGAAT GTCTAGGGAN CGTNAATCTA TATNGGCAGA 300 | |
| | AGGTAGGTTN GTGGTTGCCT AGGGCCCGGG GGGAAGGGGT TAGGGGGCCT NGGGGGTGNC 360 | |
| | AGCTTATGGG GCTGCTAATN GGGCCTNCCG NTTCTCTTTN GGGGGTTGGT ACCCTGCTAA 420 |) |
| 20 | ATTGNCCTNN TTGGCNTGGT TTTNNCCCGG GN 452 | ? |
| | | |
| | SEQ ID NO:5703 | |
| | SEQUENCE LENGTH: 257 | |
| 25 | SEQUENCE TYPE: nucleic acid | |
| 25 | TOPOLOGY: linear | |
| | CLONE: HUMGS06772 | |
| | SEQUENCE DESCRIPTION: | |
| | GATCTGTCTG TGCACATGCC TCTGTAGAGA GCAGCATTCC CAGGGACCTT GGAAACAGTT 6 | a |
| 30 | | |
| 55 | GACACTGTAA GGTGCTTGCT CCCCAAGACA CATCCTAAAA GGTGTTGTAA TGGTGAAAAC 120 | |
| | GTCTTCCTTC TTTATTGCCC CTTCTTATTT ATGTGAACAA CTGTTTGTCT TTTTTTGTAT 180 | |
| | CTTTTTTAAA CTGTAAAGTT CAATTGTGAA AATGAATATC ATGCAAATAA ATTATGCAAT 24 | |
| | TTTTTTTCA AAGTAAA 25 | 1 |
| 35 | | |
| | SEQ ID NO:5704 | |
| | SEQUENCE LENGTH: 77 | |
| | SEQUENCE TYPE: nucleic acid | |
| | TOPOLOGY: linear | |
| 40 | CLONE: HUMGS06773 | |
| | SEQUENCE DESCRIPTION: | |
| | GATCANGAAG CTATTTTCNA TTCTGGGGAA CGATTATAAC TTAAATNATT GTTTTAATAA 6 | 0 |
| | _ | 7 |
| | INDIA CASIMIA | |
| 45 | SEQ ID NO:5705 | |
| | SEQUENCE LENGTH: 278 | |
| | | |
| | SEQUENCE TYPE:nucleic acid | |
| | TOPOLOGY: linear | |
| 50 | CLONF · HIMGS 06774 | |

| | SEQUENCE DESCRIPTION: | |
|-----------------|---|---|
| | GATCCAATTT CTTTGTGGTA CCTGCAGTTT ACAAAATAAT TTGACTTCAG TGAGCATATT 60 | |
| | GGTATCTGGA TGTTCCAATT TAGAACTAAA CCATATTTNT TACAAAAAGA TATTAATCCC 120 | |
| 5 | TCTACTCCCA GGTTCCCTTT ATATGTTAAG ATATAATGGC TTTGAGGGGG GAAAAAATAA 180 | |
| | ACCTAGGGGA GAGGGGAGTT TCCTGTAGTG CTGTTTCATT AGAGGATTTC AGTAAATTAA 240 | |
| | ATTCCACAGC TAATTGAATA AATAATGGNA CCTTTAAA 278 | |
| | | |
| 10 | SEQ ID NO:5706 | |
| 70 | SEQUENCE LENGTH: 308 | |
| | SEQUENCE TYPE:nucleic acid | |
| | TOPOLOGY:linear | |
| | CLONE: HUNGSO6775 | |
| 15 ⁻ | SEQUENCE DESCRIPTION: | |
| | GATCTGCATA TNATGTATTA GGTTAGGTCA CAAAGGTTTT ATCTGAGGTG ATTTAAATAA 60 | |
| | CTTCCTGATT GGAGTGTGTA AGCTGACCNA TTTCTAATAA AATTTTAGTT GTACACTTTT 120 | |
| | AGTNGTCATA GTGAAGCAGG TCTAGAAAAT AAGCCTTTGG CAGGGAAAAA GGGCAATGTT 180 | |
| | GATTAANCTC AGTATTAANC CACATTANTC TGTATCCCAT TGTCTGGCTT TTGTAAATNC 240 | |
| 20 | ATCCAGGNCA AGNCTAAGTA TGTTGGTTAA TAGGNATCCT TNTTTTTTT TTNAANGCCT 300 | |
| | AANNGGGN 308 | |
| | | • |
| | SEQ ID NO:5707 | |
| 25 | SEQUENCE LENGTH: 104 | |
| | SEQUENCE TYPE: nucleic acid | |
| | TOPOLOGY: linear | |
| | CLONE: HUNGSO6776 | |
| | SEQUENCE DESCRIPTION: | |
| 30 | GATCGTAACC CCTTGTTGAC TAATCTNGCC GTGGTTTTGT NTAGGTCTGC AGGAAGGAAG 60 | |
| | NCTNAAAAAG CGGACGAAGA TTTTNACTTA AGTGGGACTT TGTN 104 | |
| | | |
| | SEQ 'ID NO:5708 | |
| 35 | SEQUENCE LENGTH: 137 | |
| | SEQUENCE TYPE: nucleic acid | |
| | TOPOLOGY: linear | |
| | CLONE: HUNGSO6777 | |
| | SEQUENCE DESCRIPTION: | |
| 40 | GATCCTAGTA AGTCANTNGT AGTTTACTGG TGANGTGAGC ATTNTAGATT CCCCCNTTAT 60 | |
| | CACTAATCAC ACAACAATTI TAAGAAGTAG GCTATAAAAC AAAAAAAGGT TGCTGTTTTC 120 | |
| | TATTTTTAAA TAAACNN 137 | |
| | | |
| 45 | SEQ ID NO:5709 | |
| | SEQUENCE LENGTH: 333 | |
| | SEQUENCE TYPE:nucleic acid | |
| | TOPOLOGY: linear | |
| | CLONE: HUNGSO6778 | |
| 50 | SEQUENCE DESCRIPTION: | |

| | GATCTCATTT GCTGGAATGA | TTGATTTAAG | AGTAAAATTA | GCCACTGCGT | NTGTNTNGTG | 60 |
|----|------------------------|------------|-------------|---------------|------------|-----|
| | TATAGTAACC GGTTTTNTTG | | | | | 120 |
| | CGTGCAAGGA GGAGGTAAAC | | | | | |
| 5 | TTTAGTTTGT TTTGAATGAG | | | | | |
| | AATANNNGG GNNCCTAATA | | | | | |
| | ATTTTNNTGC CCGTGTATTT | | | 1010111011111 | | 333 |
| | Allianto Containili | · | | | | 000 |
| | SEQ ID NO:5710 | | | | | |
| 10 | SEQUENCE LENGTH: 126 | | | | | |
| | SEQUENCE TYPE:nucleic | acid | | | | |
| | TOPOLOGY: linear | 001u | | | | |
| | CLONE: HUMGS06780 | | | | | |
| 15 | SEQUENCE DESCRIPTION: | | | | | |
| | GATCCTTATA AATNAGAAAC | ATGCAAGCTT | CAGCTGCTCG | AGTTCTATAG | TGTCACCTAA | 60 |
| | ATCGTATGTG TATGATACAT | | | | | |
| | ACCTIN | Modified | ALLIMITION. | 00000010 | omioundon, | 126 |
| | MOOTIN | | | | | |
| 20 | SEQ ID NO:5711 | | | | | |
| | SEQUENCE LENGTH: 133 | | | | | |
| | SEQUENCE TYPE: nucleic | acid | | | | |
| | TOPOLOGY: linear | | | | | |
| 25 | CLONE: HUMGS06781 | | | | • | |
| 25 | SEQUENCE DESCRIPTION: | | | • | | |
| | GATCCGGCAA ACAAACCACC | GCTGGTAGCG | CGTTTGTNTT | TGTTTGCAAG | CTTCAGCTGC | 60 |
| | TCGANTTCTA TANNGCCACC | | | | | 120 |
| | GTAGNCGTTN GCN | | | • | | 133 |
| 30 | • | | | | | • |
| | SEQ ID NO:5712 | | | | | |
| | SEQUENCE LENGTH: 116 | | | | | |
| | SEQUENCE TYPE: nucleic | acid | - | | | |
| 35 | TOPOLOGY: linear | | | | | |
| 33 | CLONE: HUNGS06783 | | | | | |
| | SEQUENCE DESCRIPTION: | | | | • | |
| | GATCCTTTTA AATNAAAAAT | AAAGTTTTAA | AAAAAAACAT | GCAAGCTTCA | GCTGCTCGAG | 60 |
| | TTCTATAGTG TCACCTAAAT | CGTATGTGTA | TGATACATAA | GGTTATGTAT | NCNNNN | 116 |
| 40 | | | | | | |
| | SEQ ID NO:5713 | | | • | | |
| | SEQUENCE LENGTH: 268 | | | | | |
| | SEQUENCE TYPE:nucleic | acid | | | | |
| 45 | TOPOLOGY:linear | | | | | |
| 70 | CLONE: HUMGS06784 | | | | • | |
| | SEQUENCE DESCRIPTION: | | | | | |
| | GATCTTCTCA ATGGGTGGNC | TCCTGGTATT | CGTGGGACCA | CCTGTGGGCA | CAGGAGCCAA | 60 |
| | TGTGGTTCAG ACAGCTGGGC | AGAGGGAGCT | GCTAGTCAGC | TGTTTGCCCA | CACTCTGCCT | 120 |
| 50 | GTCATGGTGA TTTGNACCCT | ACCCCCCTGG | TCCCAGNGNC | CTGGGGCTCA | CTTGATACCG | 180 |

| | TTGAAAGTAA GCACAGNCTG NCATCAATGN TGGGNACANT | | GGNAGGNCCT | GGGGCTCAGG | GCACTCGAAG | 240 268 |
|----|---|--|--------------------------|--------------------------|--------------------------|------------|
| 5 | SEQ ID NO:5714 SEQUENCE LENGTH:129 SEQUENCE TYPE:nucleic | acid | | | | |
| 10 | TOPOLOGY:linear CLONE:HUMGS06785 SEQUENCE DESCRIPTION: GATCTCAGAA TACAAATTTA TTACAGCTGG CCCTCTGTAT | | | | | |
| | AANNNNNN | 1001000110 | | | | 129 |
| 15 | SEQ ID NO:5715 SEQUENCE LENGTH:214 | | | | | |
| 20 | SEQUENCE TYPE:nucleic TOPOLOGY:linear CLONE:HUMGS06786 SEQUENCE DESCRIPTION: | acid | | | | |
| | GATCCTGCAT TTATGGTGTA TGCACACAGG TGTTGGTGAT ATGTCAGTTT CCTCTCCTGT | GGGGCTGTTG | AGATGCCTGT | TGAAGGTACA | TCGTTTGCAA | 120 |
| 25 | TTGTTTGGGA TTGGAAGTAA | | | TATAMIGADI | nenzatoraten | 214 |
| | SEQ ID NO:5716 | | | | | |
| 30 | SEQUENCE LENGTH:253 SEQUENCE TYPE:nucleic TOPOLOGY:linear CLONE:HUMGS06787 | acid | | | | |
| 35 | SEQUENCE DESCRIPTION: GATCTAATCC CTTCAAGGAA GGCCAGCCCT GGTTCTCCAT CCAGGCCTCA TCCTCCTGGA | GTGATAACAC CCCCATGTGT CCCAGCAGGG | TTCAGGTGGA GCAGAAGGAG | ACAGGAGGAA GAAGGGACTG | CTGGNCCAGG GTCCAGGCAT | 120 180 |
| | GGGTCCCTTC CCNNTGCTCC TCTGCACTGC AAA | AIGGGCANCI | CIGCIGIAII | GAIAICACIA | GINANUICIG | 253 |
| 40 | OPO 18 NO.5515 | | | | | |
| 45 | SEQ ID N0:5717 SEQUENCE LENGTH:332 SEQUENCE TYPE:nucleic TOPOLOGY:linear CLONE:HUMGS06788 SEQUENCE DESCRIPTION: | | | | | |
| | GATCATGTCT TTCAGAATCC | | | | | |
| 50 | GATTCACATC CGAAAGTGTG | | | | | |

| | TTAGTGCCAC TCATGTAAAT | CAGTAAAATC | ACAAAGGTCT | ATTTAATGAA | AACGATTTAC | 240 |
|----|------------------------|------------|------------|------------|------------|-----|
| | CAATGTTGTT TTTTTTTAAC | AGGANAAGNA | NTAGNAGCAC | NTTGTCATTT | TTNAGANGGN | 300 |
| | GGNNTTGTTG GGNGNTGGGG | GGGNNGNTTG | GN | | | 332 |
| 5 | | | | | | |
| | SEQ ID NO:5718 | | | | | |
| | SEQUENCE LENGTH: 284 | | | | | |
| | SEQUENCE TYPE: nucleic | acid | | | | |
| | TOPOLOGY: linear | | | | | |
| 10 | CLONE: HUMGSO6789 | | | | | |
| | SEQUENCE DESCRIPTION: | | | | | |
| | GATCATGCCA CTGCACTCCA | GCCTGGGCAA | CCAGGTGAGA | CCCTGCCTCA | AAAATAATAC | 60 |
| | AATAAAAGT AAAAGCAGCC | CTGGGGAAAT | GGAGACAGTG | GACAAAGCAG | GCTGGGGCAC | 120 |
| 15 | CAGGTGTGCA TGTGGGTGTG | AGTCTGTCAT | GAGAGCTGTC | CTGANTGCCC | TTAACGCCAC | 180 |
| | TGAACTGTAT GCTGGAAAAC | AGTGACAACA | GTGGATTTTG | TTATATAGAC | AATTANANNN | 240 |
| | GTATANCACC CAGAANANNT | | | | | 284 |
| | | | | • • | | |
| | SEQ ID NO:5719 | | | | | |
| 20 | SEQUENCE LENGTH: 253 | | | | | |
| | SEQUENCE TYPE: nucleic | acid | | | | |
| | TOPOLOGY: linear | | | | | |
| | CLONE: HUMGS06790 | | | | | |
| 25 | SEQUENCE DESCRIPTION: | | | | | |
| 25 | GATCTTTAAC TCCTCCTGGC | TGCACCTGGG | TAGGGATGGT | GGCATCGATG | CCCCTCTGTC | 60 |
| | TGCTGAAGGA CCTGTTGCTG | CTTCTGTCTT | TTCACCCCTC | CTTGGCTGAT | GACCCAGAGC | 120 |
| | CCTCTGATGA TGGCATTCTC | | | | | |
| | ACAGTTTCAG GTTATATTTT | AATTTTNNNT | TTTTTTGTAC | NGGTNCNGAT | NCTAATACAT | 240 |
| 30 | TNCACCNNGC AAA | | | | | 253 |
| | | | | | | |
| | SEQ ID NO:5720 | | | | | |
| | SEQUENCE LENGTH: 389 | | | | | |
| 05 | SEQUENCE TYPE: nucleic | acid | | | | |
| 35 | TOPOLOGY: linear | | | | | |
| | CLONE: HUMGS06791 | | | | | |
| | SEQUENCE DESCRIPTION: | | | | | |
| | GATCCACCCA CCTCGGCCCC | ACAAAGTGCT | AGGATTACAG | GTGTGAGCCA | CCATGCCCGG | 60 |
| 40 | CCCAGAATAC TTTTTAAAAG | AAGAGCAGGT | TAGAGGAAAG | AAAAAAATTG | ATGCTGAATG | 120 |
| | TGGTGATGAA AGCATGTTTC | TAAAATGGGA | AGCAGATGCT | TAANGAGGAA | AGACTAATCT | 180 |
| | GGGATTTTGC CCCATTTCTC | | | | | |
| | TCACATAGTG CANAANACAN | ATTTCTTGTA | AAGTCCCCAG | GGGTTTATGC | TTGGGTGAAA | 300 |
| 45 | GTTTTAGCCT GAGTATTTTT | | | | | |
| 45 | NTTNACCTTT TAATTGTNCT | GCTATNGGN | | | | 389 |
| | SEQ ID NO:5721 | | | | | |
| | SEQUENCE LENGTH: 174 | | | | | |
| 50 | SEQUENCE TYPE:nucleic | acid | | | • | |

| | TOPOLOGY:linear CLONE:HUMGS06792 | | | | | · |
|----|---|------------|------------|------------|------------------|------------|
| | SEQUENCE DESCRIPTION: | | | | | |
| 5 | GATCTGGTTG GGGTTTTGGG | TTTTTTGTTG | TTGTTGTTTA | TTTGTTATTT | TAAAGGTAAA | 60 |
| | TTGCACTTTT AAAAAAATAA | TTGGTTGACT | TAATATATTN | NCTTTTTTNC | TCACCTGCAC | 120 |
| | TTAGAGGAAA TTTGAACAAG | TTGGAAAAA | ACANNNTTNG | TTTCAATTCT | ANGN | 174 |
| 10 | SEQ ID NO:5722 | | | | | |
| | SEQUENCE LENGTH: 367 | | | | | |
| | SEQUENCE TYPE:nucleic | acid | | | | |
| | TOPOLOGY: linear | | | | | |
| 45 | CLONE: HUMGS06794 SEQUENCE DESCRIPTION: | | | | | |
| 15 | GATCCTATGT TGCTGGAACT | TCCCAAACAC | CATCTTCTCC | TCAATNACCC | CATCTGAGTG | 60 |
| | CGTGGACTCC TGGGAGCTCC | | | | | |
| | AGACCTCATA TGACGTGGCC | | | | | |
| | CTTGAACAAC TCACCAACCT | | | | | |
| 20 | TGCTTCCTTC TGTGGCCTCT | | | | | |
| | CACAGAAAGA GAAGGGGATG | | | | | |
| | TTTTATN | nuicoconid | nodocotato | 1111000111 | montuum | 367 |
| 25 | SEQ ID NO:5723 | | | | | |
| | SEQUENCE LENGTH: 311 | • | | | | |
| | SEQUENCE TYPE: nucleic | acid | | | | |
| | TOPOLOGY:linear | | | | | |
| | CLONE: HUMGS06795 | • | | • | | |
| 30 | SEQUENCE DESCRIPTION: | | | | | |
| | GATCCTGAGT AATCCTTTTA | GAGCCCGAAG | AGTCAAAACC | CTCAATGTTC | CCTCCTGCTC | 60 |
| | TCCTGCCCCA TGTCAACAAA | TTTCAGGCTA | AGGATGCCCC | AGACCCAGGG | CTCTAACCTT | 120 |
| | GTATGCGGGC AGGCCCAGGG | AGCAGGCAGC | AGTGTTCTTC | CCCTCAGAGT | GACTTGGGGA | 180 |
| 35 | GGGAGAAATA GGAGGAGACG | TCCAGCTCTG | TCCTCTCTNN | NNNCTCCTNC | CTTCAGTGTC | 240 |
| | CTGAGGAACA GGACTTTCTC | CACATTGTTT | TGTNTTGCAA | CATTTTGCAT | TAAAAGGAAA | |
| | ATCCACTGAA A | | | | | 311 |
| | SEQ ID NO:5724 | | | | | |
| 40 | SEQUENCE LENGTH: 342 | | | | | |
| | SEQUENCE TYPE:nucleic | acid | | | | |
| | TOPOLOGY: linear | | | | | |
| | CLONE: HUNGS06796 | | | | | |
| 45 | SEQUENCE DESCRIPTION: | | 0054455475 | | B. 6. 6. 5. 5. 5 | |
| | GATCCTCCGG CCTCAGCTGG | | | | | |
| | CCCTGCCGCG CCGGGACAAG | | | | | |
| | CAGGCTGGTC TCCAACTCCT | | | | | |
| | CTGCAGGCCA CAGCTTTGCT | LITTAAAAGC | ATTTUTGCAT | AACTAAAAAG | AUAUUAAAIT | 240 |

55

50

ACGAGCATAC GGNAACTGAT TTCTGCTTTC CTGAATTTTC TAAATGTATT TAATGGGCAT 300

| | GGTTCTTTTG CAATGAAAAA | GTAATANATT | NGGGTNTCAT | CN | | 342 |
|----|---|--|--|--|--|-------------------|
| 5 | SEQ ID NO:5725 SEQUENCE LENGTH:312 SEQUENCE TYPE:nucleic TOPOLOGY:linear CLONE:HUMGS06797 | acid | | | | |
| 10 | SEQUENCE DESCRIPTION: GATCCGCCGA CCTCGGCCTC CCAAGAATGG ACATTTTTTA ATGCTCCGGA ATTATCAGAA TGCCATATAA GCTTACCTAA ATAAATNAGA NTTTATCATT | AAAAAACATC AGCATAATGC CAAACAGTTA | AGTACTTCCT AGAAATACGA TATCCCTATT | ACCACTGCTG ATTAGTGGAA CCTCAACTGA | CATGAGTATA CTTAATCATG ATGTCTTTTA | 120 180 240 |
| 15 | GGGNNGGGGN GN | IMMILIMOU | aldwaldida | ugii i daiii da | 0000000000 | 312 |
| 20 | SEQ ID NO:5726 SEQUENCE LENGTH:132 SEQUENCE TYPE:nucleic TOPOLOGY:linear CLONE:HUMGS06798 | acid | | · | | |
| 25 | SEQUENCE DESCRIPTION: GATCCTAGGC TCCCTCCATC GAGCTCCAGT TACCATTTCT AGAAAATTCA AA | | | | | |
| 30 | SEQ ID NO:5727 SEQUENCE LENGTH:135 SEQUENCE TYPE:nucleic TOPOLOGY:linear CLONE:HUMGS06800 | acid | | | | |
| 35 | SEQUENCE DESCRIPTION: GATCANCTAA GGTCAGNAGT CTAAAAATAC AAAAATTTAC GAGAATCACT TGANN | | | | | |
| 40 | SEQ ID NO:5728 SEQUENCE LENGTH:334 SEQUENCE TYPE:nucleic TOPOLOGY:linear | acid | | | | |
| 45 | CLONE:HUMGS06801 SEQUENCE DESCRIPTION: GATCAGTGGG CCTCCAAGGA TTGCTGCAAA CCTGACCCCT | GCTCAGTAAA | GCACTTGCAA | CCGTCTGTNA | TGCTGTGACA | 120 |
| 50 | CATGGCCCCT CCCCCTGCCA GAAGATGGGG GAGGAGGCAG | | | | | |

| | TTCNTCTGAA CTCAAACTGA TGGTNTATCC AAAANGCTT1 | | | GNGTCGTACA | GANAGCTGCC | |
|----|---|------------|--|------------|-----------------------------|-----|
| | IUUINIAICC AAAANGCIII | TINITECTE | IGIN | | | 334 |
| 5 | SEQ ID NO:5729 | | | | | |
| | SEQUENCE LENGTH: 158 | | | | | |
| | SEQUENCE TYPE:nucleio | acid | | | | |
| | TOPOLOGY: linear | | | | | |
| 10 | CLONE: HUMGS06802 | | | | | |
| | SEQUENCE DESCRIPTION: | | | | | |
| | GATCCTGTAA GCAGACTTGG | GCAGTCTCCT | TTAGAAATAG | GTTGTCTGTA | CATGTTCTAN | 60 |
| | GGTNTTGTAG ACACGTGTGA | CTGTNTANGT | GTATTGATGT | GAATANTATT | AAATATCCTA | 120 |
| | ATTATNTAAT TCATTGTATT | GTTTCTGNGA | AGTTGGGN | | | 158 |
| 15 | | | | | | |
| | SEQ ID NO:5730 | | | • | | |
| | SEQUENCE LENGTH: 106 | | | • • | | |
| | SEQUENCE TYPE: nucleic | acid | | | | |
| 20 | TOPOLOGY: linear | | | | | |
| | CLONE: HUMGS06803 | | | | | |
| | SEQUENCE DESCRIPTION: | | | | | |
| | GATCCATANA AGAGCTCCTA | | | | TCATGTTTAA | |
| | GCTAAACCCA TATNCAAAGA | CCAANCNACG | NACCACCATT | CTTCGN | | 106 |
| 25 | 070 To No 550 | | | | | |
| | SEQ ID NO:5731 | | | | | |
| | SEQUENCE LENGTH: 105 | | | | | |
| | SEQUENCE TYPE:nucleic TOPOLOGY:linear | acid | | | | |
| 30 | CLONE: HUMGS 06804 | | | | | |
| | SEQUENCE DESCRIPTION: | | | | | |
| | GATCCTGGTG TGTGTATTAT | ATAAAGAGAC | <i>የ</i> የ የ የ የ የ የ የ የ የ የ የ የ የ የ የ የ የ የ | ATTTTCTCTT | ተተ ሶሮ <u>ነ</u> ተሶሮሮተ | 60 |
| | CTCCCTTAAC AGGATTGAAA | | • | | TICCATCCCI | 105 |
| 35 | OTOGOTIANO AUGITIANA | · | HOIGHHI | UIAAA | | 103 |
| 33 | SEQ ID NO:5732 | | | | | |
| | SEQUENCE LENGTH: 243 | | | | | |
| | SEQUENCE TYPE:nucleic | acid | | | | |
| | TOPOLOGY: linear | | | | | |
| 40 | CLONE: HUMGS06805 | | | | | |
| | SEQUENCE DESCRIPTION: | | | | | |
| | GATCANCAAA ATCCAATTTC | ACATGTGGCA | CTAGGAAAAT | GGAATGCTAT | AAAATTAATC | 60 |
| | CCCATCACCC AAGTAGGGAT | GCTGGTGCTT | TTATACTGAG | TCTTTACTGC | CAATAAGTGA | 120 |
| 45 | TGCTGGCTGC AAAGGANCAG | | | | | |
| | THOTGCANTG GGGAAAGCCA | GTTTCATACC | AAAAANGANA | ATGNAGGTGN | TTATANTGGN | 240 |
| | NNN | | | | | 243 |
| | | | | | | |
| 50 | SEQ ID NO:5733 | | | | | |
| 50 | SEQUENCE LENGTH: 194 | | | | | |

| | SEQUENCE TYPE:nucleic TOPOLOGY:linear CLONE:HUMGS06806 SEQUENCE DESCRIPTION: | acid | | | | |
|----|---|------------|------------|------------|------------|-----|
| 5 | GATCTCGGTC ACGTGTCCCG | GGCGCTGAGG | GGAAAGGAAG | CGGGCATGAT | TGTAGACAAT | 60 |
| | GAGGGGGTTC TCTTGATGTA | | | | | |
| | TTCCAGTAAA TTAACTTTAT | | | • | | |
| | CATTAAATCT TAAA | | | | | 194 |
| 10 | | | | | | |
| | SEQ ID NO:5734 | | | | | |
| | SEQUENCE LENGTH: 216 | | | | | |
| | SEQUENCE TYPE: nucleic | acid | | | • | |
| 15 | TOPOLOGY: linear | | | | | |
| | CLONE: HUMGS06807 | | | | | |
| | SEQUENCE DESCRIPTION: | **** | ###CC++C+# | | CALANNOTA | 60 |
| | GATCTGGGCC CTGAAGTATA TTTCATATTG TGGAATAAAC | | | | | |
| 20 | CTACTACTCA TGGAGTCTGA | | | | | |
| | GGCACTGGAN TTGGCTGTAA | | | IAIIIWAII | OIOMIMIMU | 216 |
| | 00010100101 | | | | | |
| | SEQ ID NO:5735 | | | | | |
| 25 | SEQUENCE LENGTH: 133 | | | | | |
| | SEQUENCE TYPE:nucleic | acid | | | | |
| | TOPOLOGY: linear | | | | | |
| | CLONE: HUMGS06808 | | | | | |
| | SEQUENCE DESCRIPTION: | | | | | |
| 30 | GATCTTCTAG TTNCTGTGTT | | | | | |
| | GTTGTTTAGT TATAATTCAG | AGTGTACAGA | ATGGTAAAAN | TNCCAATCAG | TCAAAAGAGG | |
| | TCAATGANTT ANN | | | | | 133 |
| | SEQ ID NO:5736 | | | | | |
| 35 | SEQUENCE LENGTH: 275 | | • | | | |
| | SEQUENCE TYPE:nucleic | acid | | | | |
| | TOPOLOGY: linear | | | | | |
| | CLONE: HUMGS06809 | | | | | |
| 40 | SEQUENCE DESCRIPTION: | | | | | |
| | GATCTTAGCA CCCAACTCTG | CTGCCCTTNC | TGCTGGGCAG | TGCCTNTCCT | AAGAGGGGAC | 60 |
| | TCCCTAAAGG CCAGAGAGAG | GGTGCTCATC | TCCAGGACCT | AGGCCACCTG | TCAGCACAAA | 120 |
| | CAGAACTTAT TCCAGACATA | | | | | |
| 45 | AAATATCACT CTCCTACTTA | | | ACAGCCCTTT | ACTCCCNCTA | |
| - | CATATTTNCC ACANCACANT | GGGGCTCANT | NNCCN | | | 275 |
| | SEQ ID NO:5737 | | | | | |
| | SEQUENCE LENGTH: 211 | | | | | |
| 50 | SEQUENCE TYPE:nucleic | acid | | | | |

| 5 | TOPOLOGY:linear CLONE:HUMGS06810 SEQUENCE DESCRIPTION: GATCATGCTA GTNACTTCCT GCCCCCAGGC ACCGTGCCAA AN CTCAGGGGAC TGTCCAGGGC GCCCAGTGGT AGTGAGGGAG AC CAGCCTGCTG GGCCCTTTGT GTTTGAGGAT GCTTAATGAT TG TATGCATTAA AATTNCTTTG TTACGAGCAA A | GTGTCTCTG TTCTTTTGCT 120 |
|----|---|--------------------------|
| 10 | SEQ ID NO:5738 SEQUENCE LENGTH:133 SEQUENCE TYPE:nucleic acid TOPOLOGY:linear | |
| | SEQUENCE DESCRIPTION: GATCTNCTTT ATAGCCANCT CTCCTCACTT AACAGGTACT TT CAAAGTCTTC CGCTTGCAAC TTGGGATGGT GATATGGCTG TG CTNCACCTGN NNN | |
| 20 | SEQ ID NO:5739 SEQUENCE LENGTH:169 SEQUENCE TYPE:nucleic acid | |
| 25 | TOPOLOGY:linear CLONE:HUNGSO6812 SEQUENCE DESCRIPTION: GATCATCGCA AGGAAGNAGG CAGACAAGAG TAAGGCACAC CT TCAGAACCAG GAGGAAAGNT TTTATTGCTA TGCGGGTAGG TA | |
| 30 | 30 ATCCATATAG TTACTTAAAG TCCAGTTTTC TGTTAAACNN NN | |
| 35 | SEQ ID NO:5740 SEQUENCE LENGTH:127 SEQUENCE TYPE:nucleic acid TOPOLOGY:linear CLONE:HUMGS06813 SEQUENCE DESCRIPTION: | |
| 40 | GATCTCTTGT CCACTAAGTA TCTTGTTAAA TGCCAGTATC TC AAATGGTAAT TGTAGCATTT CAGAAAATNT CTTTCATTTC AA AAATAAA | |
| 45 | SEQ ID NO:5741 SEQUENCE LENGTH:179 SEQUENCE TYPE:nucleic acid TOPOLOGY:linear CLONE:HUMGS06815 SEQUENCE DESCRIPTION: | |
| 50 | CAMPARAGAA ARRAAGAAA ARGAAA AAAAAAA AAAAAAA | ATTATCTGT GGAGCATCAG 60 |

| | TTTGGGAAGA ATTATTGAAT GTTGCTGCCT CATTGACCTG | | | | | |
|-----|--|------------|------------|------------|--------------|-----|
| 5 . | SEQ ID NO:5742 | | | | | |
| | SEQUENCE LENGTH: 196 | | | | | |
| | SEQUENCE TYPE:nucleic | acid | | | | |
| | TOPOLOGY: linear | | | | | |
| 10 | CLONE: HUNGSO6816 | | | | | |
| | SEQUENCE DESCRIPTION: GATCAGCCCT NCCCTTCAGC | ATCCTCAGNT | CCTGNAGCAG | AGCCTGGAAG | ACACCCTAAT | 60 |
| | GTGGCAGCTG TCTCAAACCT | | | | | |
| 15 | ATGACCACTT NCCCCGTGGG | | | | | |
| 75 | TTNTGTTTTT TTCTTN | | | | | 196 |
| | SEQ ID NO:5743 | | | • • | | |
| | SEQUENCE LENGTH: 326 | • • | | | | |
| 20 | SEQUENCE TYPE:nucleic TOPOLOGY:linear | acid | | | | |
| | CLONE: HUNGS06817 | | | | | |
| | SEQUENCE DESCRIPTION: | | | | | |
| 25 | GATCCGCAGT CCTAACAGGG | TGAGAAAGCA | CAAGAGGGGC | CAGCTCGGCT | GAGGCCTGAG | 60 |
| 25 | GAGAAATAAT GAGAAGTTTT | | | | | |
| | CAACAAGCTG TCCCTCAGGG | | | | | |
| | TGGGGACTGG GGCTTGCTTT CCTGGTTTGG CAGAGAGGAG | | | | | |
| 30 | ATANTTCAGA AANTAGGAAA | | UCITINUANO | NIOIUNUAAA | IUIIAAAA | 326 |
| | SEQ ID NO:5744 | | | | | |
| | SEQUENCE LENGTH: 105 | | • | | | |
| | SEQUENCE TYPE:nucleic | acid | | | | |
| 35 | TOPOLOGY:linear | | | | | |
| | CLONE: HUMGS06818 | | | | | |
| | SEQUENCE DESCRIPTION: GATCTCGAAC CCTGTCTAGA | AGGAATNTAT | TTCTTCCTAA | ATGTTCACTT | TTT A TACTUA | 60 |
| | TGTCCTGTAT TCTAAACAGT | | | | IIIAIAUINA | 105 |
| 40 | | | | | | |
| | SEQ ID NO:5745 | | | | | |
| | SEQUENCE LENGTH: 167 | | | | | |
| 45 | SEQUENCE TYPE:nucleic | acid | | | | |
| | TOPOLOGY:linear CLONE:HUMGS06819 | | | | | |
| | SEQUENCE DESCRIPTION: | | | • | | |
| | GATCTCAGAA GTTTTNAAAA | ATAGCAAAGA | AGACTGNATT | TGGAAANCAT | GGTCTACAAT | 60 |
| 50 | TGGNTGTTAA ATNCTGAAGC | TATGAAGAAT | AAATATTTCA | ACTTTGGATT | ATGAAACCCC | 120 |
| 00 | ATTTATGATT TTTTAAATAC | ACTTGAAATA | AAAATGATTA | AACTAAA | | 167 |

| | SEQ ID NO:5746 | | | | | |
|----|----------------------|----------------|------------|------------|-------------|-----|
| | SEQUENCE LENGTH: 25 | 8 | | | • | |
| | SEQUENCE TYPE: nucl | eic acid | | | | |
| 5 | TOPOLOGY: linear | | | | | |
| | CLONE: HUMGS06820 | | | | | |
| | SEQUENCE DESCRIPTI | ON: | | | | |
| | GATCINTAGA ATTNITA | | ACTTCTTTGA | TAAAAGAAAA | ATAAGTCAGA | 60 |
| | TTGTTAACTC CAAGATT | | | | | |
| 10 | TTGGGGGGTC TGGGCAC | | | | | - |
| | TGGTAGTGGT CCGGGTC | | | | | |
| | NAGGNTCTGN CTNGAAA | | dimidollid | CACHGIGIAI | | 258 |
| | MAGNICION CINCADA | , | | | | 200 |
| 15 | SEQ ID NO:5747 | | | | | |
| | SEQUENCE LENGTH: 35 | า | | • | | |
| | SEQUENCE TYPE:nucle | | | | | |
| | TOPOLOGY: linear | | | | | |
| | CLONE: HUMGS06821 | | | | | |
| 20 | SEQUENCE DESCRIPTION | าพ - | | | | |
| | GATCCCTGCC CTTNTCA | | TCCTTCCATC | CGGTGGCCTA | TTCCAGGAAT | 60 |
| | TCCTCTTTTG CTTAAAT | | | | | |
| | CTGCTGGGCT GAGTGACA | | | | | - |
| 05 | TGCAATCAGA CAAGTGT | | | | | |
| 25 | CAGGAAGGNC AGGNAGA | | | | | |
| | CTGGTTGGCA AGCTNGG | | | | WOOMOONIN | 350 |
| | CIUGIIUUCA AUCINUU | de induduitan | dumililim | OUGGINGUM | | 550 |
| | SEQ ID NO:5748 | | | | | |
| 30 | SEQUENCE LENGTH: 33: | 1 | | | | |
| | SEQUENCE TYPE:nucle | | | | | |
| | TOPOLOGY: linear | or acru | | | | |
| | CLONE: HUMGS 06823 | | | | | |
| | SEQUENCE DESCRIPTION | N. | | | | |
| 35 | GATCTTCCAT GTTTTGAG | • | ACACAACACC | TTAGTTCCTC | TAGGGGCTGT | 60 |
| | ACAGTATTGT GGCATCA | | | | | |
| | AACAAAGACA TTTATAT | | | | | |
| | GAGGAAACTC AGNTTTA | | | | | |
| 40 | ACTITITCCT GNCTGTGG | | | | | |
| | TGCTTNTGTG NTGGGTT | | | OTHINGTOOL | IONO INDOCK | 331 |
| | Idollardia araddill | TIC ANGUGNGINN | n | | | 331 |
| | SEQ ID NO:5749 | | | | | |
| | SEQUENCE LENGTH: 23 | ŧ | | | | |
| 45 | SEQUENCE TYPE: nucle | | | | | |
| | TOPOLOGY: linear | , ic acid | | | | |
| | CLONE: HUNGS 06824 | | | | | |
| | SPONE NONGSCOOLS | N - | | | | |

| .5 | GATCGAGGAT ATTTTTAAG AGGTTCAAGC TTGTGACTGT TAGTAGTGCA AGGATTTGTA 60 TGGGCTCAGT GATTACAAAC AAAGACATGC AAANTACAAC TGTTTAAACA TTTTCAAGGT 120 ATTTTTAAAG GTTTTGTATT GAAACANTGT TTATATTTNC TGAGCTCCTA AAAATGGTAG 180 ANTACACATG ANANCTTTTG TTTAGGAAAN GTTANCTTGT TAANTNCTNT TGATTN 236 | |
|----|---|--|
| 10 | SEQ ID NO:5750 SEQUENCE LENGTH:60 SEQUENCE TYPE:nucleic acid TOPOLOGY:linear | |
| | CLONE: HUNGS06825 SEQUENCE DESCRIPTION: GATCCCACCT TTGCTCCTGA CAACACTCAT TACACTAAAC ACCTCTTGGA TTTGGTGAAA 60 | |
| 15 | SEQ ID NO:5751 SEQUENCE LENGTH:129 SEQUENCE TYPE:nucleic acid TOPOLOGY:linear | |
| 20 | CLONE:HUMGS06826 SEQUENCE DESCRIPTION: GATCACTGGA TGGATAGCTC AGCCTGGGGC ATTTAGTGTT TTCCCTGGTG ATAAATCCCC 60 AAGGCAGCTG GATTTGGAGC TGGTGGCAAG TTGAAATNAT TAAAAATTGA TTTGTGTGGG 120 | |
| 25 | ACTGTCAAA 129 | |
| 30 | SEQ ID NO:5752 SEQUENCE LENGTH:180 SEQUENCE TYPE:nucleic acid TOPOLOGY:linear CLONE:HUMGS06827 | |
| 35 | SEQUENCE DESCRIPTION: GATCTTTGGA CTGAGAATGT TTGGTAACAT AGTCAAGCAT TTGTTAAGCC AAGTGTGGAA 60 ATGTTCACTT TTTAACTTTA CAGTTTTTTT AATGAGCAAT TCTACATTTC TAAGAAAAAA 120 GATACTTCAT TTTTATATAA GGTTACAACT GCTTTATAAA NCTGTATTCA CAATGTCAAA 180 | |
| 40 | SEQ ID NO:5753 SEQUENCE LENGTH:119 SEQUENCE TYPE:nucleic acid TOPOLOGY:linear CLONE:HUMGS06828 | |
| 45 | SEQUENCE DESCRIPTION: GATCTGGCCT TTTCTTAACA AAATCNGTGC AAAANATGCA GGTGGATGTC CCTAGGTCTG 60 TTTTCAAAGA ACTTTTTCCA AGTNCTTGTT TTATTTATTA AGTGTCTACC NNGTAAATN 119 | |
| | SEQ ID NO:5754 SEQUENCE LENGTH:67 | |
| 50 | SEQUENCE TYPE:nucleic acid | |

| | TOPOLOGY:linear | | | | | |
|-----|---|--------------------|---------------------|-----------------------------|--------------|-----|
| | CLONE: HUMGS06829 | | | | | |
| | SEQUENCE DESCRIPTION: | | | | | |
| 5 | GATCTCCATA AATNACTTAG | TCTTCTATGT | ATAGCTATCA | AGGAAATAAA | ACCAATTTTG | |
| | CCACAAA | | | | | 67 |
| | SEQ ID NO:5755 | | | | | |
| 10 | SEQUENCE LENGTH: 323 | | • | | | |
| • | SEQUENCE TYPE:nucleic | acid | | | | |
| • | TOPOLOGY: linear | | | | | |
| | CLONE: HUNGS06830 | | | | | |
| | SEQUENCE DESCRIPTION: | | 0.00.00.00.00.00.00 | 5 666 5 16116 | | • |
| 15 | GATCAGAACA AAAACACCAC | | | | | |
| | GTTTTTGTTG ACTATCATAC | | | | | |
| | TCTCTGTACT TTGGTAAAGN | | | | | |
| | GCCTGCTGAA ATAATAGCCT | | | | | |
| 20 | CCCAGNGGGN GTAANNTATG | | IACCICCCAI | AUNACANUUI | GIINGGAGGG | |
| | NNGGAGTGAG TGTNNTAGAN | GGN | | | | 323 |
| | SEQ ID NO:5756 | | | | | |
| | SEQUENCE LENGTH: 274 | | | | | |
| 25 | SEQUENCE TYPE:nucleic | acid | | | | |
| | TOPOLOGY:linear | | | | | |
| | CLONE: HUMGS06831 | | | | | |
| | SEQUENCE DESCRIPTION: | ### A A ### C ## C | #0#00 + + + O + | 0108010088 | #C###CC \ CC | ~~ |
| 30 | GATCAGGTGT CTATAACATT | | | | | |
| 30 | AAATCCAAAA GAACACATAG | | | | | |
| | TTATATTAAA AANTGCTTTG TTATTTAATG ATGGTACANT | | | | | |
| | ANAGTNANGC TGTTTGAAGA | | | IUINGAAAUI | IIICICIAIG | 274 |
| 0.5 | ANAGINANGC IGIIIGAAGA | AIIMANUNUN | LINN | | • | 214 |
| 35 | SEQ ID NO:5757 | | | | | |
| | SEQUENCE LENGTH: 344 | | | | | |
| | SEQUENCE TYPE: nucleic | acid | | | | |
| | TOPOLOGY: linear | | | | | |
| 40 | CLONE: HUMGS06832 | | | | | |
| | SEQUENCE DESCRIPTION: | | | | | |
| | GATCCGCCCA CCTCGGCCTC | CCAAAGTGCT | GGGATTACAG | GTGTGAGCCA | CTGAGCCCAG | 60 |
| | NCTGTATCCA TGTNTTCTGC | ATGTTGATTC | AACCAGCTAC | ACATGGACAT | TGTAGTTAGG | 120 |
| 45 | CCTATGATGA TTGTGTCTGT | TCTGAAGATG | TACATACCTT | TTCTTCTATC | ATTATTCCCT | 180 |
| 70 | AAACANTAGA GTATAACAAC | TATTTACACA | GCATTTACAT | TGTATTGGGT | NTTNTANGTA | 240 |
| | ATCTAAAGAT GGTTTAAAGN | ATNCAAGAGG | GTATGCATAG | GNTATATGCG | AATACCACCT | 300 |
| | CATTITANAT NGNTGACTTG | NGCNTCGANN | ATGAGGGGAT | NTGN | | 344 |
| 50 | SEQ ID NO:5758 | | | • | | |

| | SEQUENCE LENGTH: 329 |
|----|---|
| | SEQUENCE TYPE: nucleic acid |
| | TOPOLOGY: linear |
| 5 | CLONE: HUMGS06833 |
| | SEQUENCE DESCRIPTION: |
| | GATCATGATA CAATTATTTT ATTAAGTCAT GGTTAATAAC AAATGAATCC AGACTTGTCT 6 |
| | AACAGATTTT CCATCAACAA ATATTGTTAT GTGCAAAAGT ATTGCCTATG TTGTTTTACA 12 |
| 10 | CACCACTGCA TTAACTAGAA CTGCTGAGAG GACTGTATAT ATGATTTTAA ACCTAAGTTG 18 |
| | ATTITITIC TCACTCTTGA AAGGAGTACT TCTTTGTGAA AGCAGTTCTT ACAGCTTTGT 24 |
| | TTTCAACCAG CTAAAAATGT TTTGTATATN ACTCTAACCT GTTGTCCTCC ACATTCTGTT 30 |
| | GGTNCTGATT GNTGCTGTNT NCTGGTTTN 32: |
| 15 | SEQ ID NO:5759 |
| | SEQUENCE LENGTH: 239 |
| | SEQUENCE TYPE:nucleic acid |
| | TOPOLOGY: linear |
| | CLONE: HUNGS06834 |
| 20 | SEQUENCE DESCRIPTION: |
| | GATCTATCCC TGCGGCCTCC ACACCTGAAC TTGCCTAACT AACTGGCAGG GGAGACAGGA 60 |
| | GCCTAGCGGA NCCAGCCTGG GAGCCCAGAG GGTGGCAAGA ACAGTGGGCG TTGGGAGCCT 120 |
| | AGCTNCTGCC ACATGGAGCC CCCTCTGNCG GTCGGGCAGC CAGCAGAGGG TNNGTAGCCA 180 |
| 25 | AGNTGNTTGT NCTGGGGGCT GNCCNTGTGT ATTCACCACC AGGTAAATTA GACCATTNN 239 |
| | SEQ ID NO:5760 |
| | SEQUENCE LENGTH: 143 |
| | SEQUENCE TYPE: nucleic acid |
| 30 | TOPOLOGY: linear |
| | CLONE: HUMGS06835 |
| | SEQUENCE DESCRIPTION: |
| | GATCAACTIT CCTTCTGTGT GTGGCTCAGN AGTTCTTCTG CAGAGATGGC GCTATCTTTC 60 |
| 35 | CTCCTCCTGT GATGTCCTGC TCCCAACCAT TTGTACTCTT CATTACAAAA GAAATAAAAA 120 |
| | TATTAACGTT CACTATGCTG AAA 143 |
| | SEQ ID NO:5761 |
| | SEQUENCE LENGTH: 52 |
| 40 | SEQUENCE TYPE: nucleic acid |
| | TOPOLOGY: linear |
| | CLONE: HUNGS06836 |
| | SEQUENCE DESCRIPTION: |
| 45 | GATCGCATCC CACAATGCGA GAATAATAAA ATAAAATTGG ATATTTGAGA AA 52 |
| | SEQ ID NO:5762 |
| | SEQUENCE LENGTH: 359 |
| | SEQUENCE TYPE:nucleic acid |
| 50 | TOPOLOGY: linear |

| | .CLONE: HUMGS06837 SEQUENCE DESCRIPTION: | | | | | |
|-----|---|------------|------------|------------|------------|-----|
| | GATCCTCCCG TNTCAGCCTC | CTGAGTAGCT | GGGATTACAG | GCGCACAČCA | CCAATGCCCA | 60 |
| 5 . | GCTAGTTTTT GINTTTINNA | | | | | |
| | ACTCCTGGGC TCAAGCAGTC | | | | | |
| | GCACCGTGCC CGGCTAAAAA | | | | | |
| | TATATTAGAG NTTGTTTTAT | ANCANTACAT | ATAGATATGC | TTATCCTTGN | TTGACAGTNG | 300 |
| | CATAATTNTT CCANTAAAAT | TTGGTTGTAT | CNAGGGGCAN | TTAACCCAGT | TACTTAGNN | 359 |
| 10 | | | | | | |
| | SEQ ID NO:5763 | | | | | |
| | SEQUENCE LENGTH: 308 | | | | | |
| | SEQUENCE TYPE: nucleic | acid | | | | |
| 15 | TOPOLOGY: linear | | | | | |
| | CLONE: HUMGS06838 | | | | | |
| | SEQUENCE DESCRIPTION: | | | • • | | |
| | GATCATNAAG GACATTCGCA | ATCTGGAGGA | CATCAGGAAG | ACCTTACCAT | CTGGCTGCTT | 60 |
| | CAACACCCCG TCCATTGAAA | AGCCCTAGTC | TCTTTAGGGC | TGGAAGGCAG | CATCCCTCTG | 120 |
| 20 | ACAGGGGGC AGTTGTGAGG | CCACAGAGTG | CCTTGACACA | AAGATTACAT | TTTTCAGACC | 180 |
| | CCCACTCCTC TGCTGCTGTC | • | - | | | |
| | AAAGAGANGC AAATTAANCA | TCCTGANTCG | GGNACANAGG | GTTTTATCTA | ANANNNGGTN | 300 |
| | GNNNGTGN | | | | • | 308 |
| 25 | · | | | | | |
| | SEQ ID NO:5764 | | | | | |
| | SEQUENCE LENGTH: 91 | | | | | |
| | SEQUENCE TYPE: nucleic | acid | | | | |
| •• | TOPOLOGY: linear | | | | | |
| 30 | CLONE: HUNGS06839 | | | | | |
| | SEQUENCE DESCRIPTION: | | | | | |
| | GATCATAAAT ATTAATAATN | | | AATGCATTCC | TTATAAATAA | |
| | ATGCTACATT TAGTAACTCA | TTTCACCCAA | A | | | 91 |
| 35 | OPA IN NA. EZEC | | | | | |
| | SEQ ID NO:5765 SEQUENCE LENGTH:320 | | | | | |
| | SEQUENCE TYPE:nucleic | anid | | | | |
| | TOPOLOGY: linear | aciu | | | | |
| 40 | CLONE: HUNGS06840 | | | | | |
| 40 | SEQUENCE DESCRIPTION: | | | | | |
| | GATCAGCACA AGTAACAGAA | AATNAGCCTG | ACGGTGGCTT | AAGCAATGGG | AATGTTTATC | 60 |
| | TCACATAGCA AAAAGTCTGT | | | | | |
| | TCAGGATTTC CTTGGAACCG | | | | | |
| 45 | GCGCCAAGCA TCATTCTGCA | | | | • | |
| | GCCTTCTCAT TCTGCCCTTA | | | | | |
| | GTCTNTTTAT AGNGTGGGNN | | | | | 320 |
| | | | | | | |
| 50 | SEQ ID NO:5766 | | | | | |

| | SEQUENCE LENGTH: 320 SEQUENCE TYPE: nucleic acid | | | | |
|----|--|-----------------|--|--------------|-----------|
| 5 | TOPOLOGY: linear CLONE: HUMGS06841 SEQUENCE DESCRIPTION: | | | | • |
| | GATCCCACTC TGATTGCATC CATTTO | TCTG AAAGACTTGT | TTGTNCTGCT | TCTCTTCATA | 60 |
| | TAACTGAGCT GGCCTTATCC TTGGC | | • | | |
| 10 | GTGAGGTTCC ATCCAGCCAA GTTTAT | GTGG CCTATTGTCT | CAGGACTCTC | ATCACTCAGA | 180 |
| 10 | AGNOTGOOTO TGATTTACCO TACAGO | TTCA GGCCCAGCTG | CCCCCAGTC | TTTGGGTGGT | 240 |
| | GCTGTTCTTT TCTGGTGGAT TTAATO | CTGA CTCACTGGTA | CAAACAGCTG | TTGANGCTCA | 300 |
| | GAGCTGGAGG TGAGCTTCNN | | | | 320 |
| 15 | SEQ ID NO:5767 | | | | |
| | SEQUENCE LENGTH: 111 | | | | |
| | SEQUENCE TYPE: nucleic acid | | | | |
| | TOPOLOGY: linear | | | | |
| 20 | CLONE: HUMGS06842 | •. | | | |
| | SEQUENCE DESCRIPTION: | | C. C | #G +##G +#GG | |
| | GATCCAGTGA CAATNTGCCC CCTGCC | | | | 60 111 |
| | ATHOTAGANG CAUGICICIA CATCOC | nunc ucuucuunu | CANIGCICCI | N | 111 |
| 25 | SEQ ID NO:5768 | | | | |
| | SEQUENCE LENGTH: 256 | | | | |
| | SEQUENCE TYPE:nucleic acid | | | | |
| | TOPOLOGY:linear CLONE:HUMGS06843 | | | | |
| 30 | SEQUENCE DESCRIPTION: | | | | |
| | GATCATTCTC TCTGAGGGCA GNTGNG | CCC AGGNAAATAG | TOTTOGNAAT | GTTAAATATG | 60 |
| | ATGGTAAAT TAAAAGTTTT ACAACA | | | | |
| | CTGTTCTATT GTATTATGGT GTCCGA | | | | |
| 35 | AAAAGNAAAA TCAGTTTAAT GTGGGN | | | | |
| | GTATAGTGCA TANAGN | | | | 256 |
| | SEQ ID NO:5769 | | | | |
| | SEQUENCE LENGTH: 163 | | | | |
| 40 | SEQUENCE TYPE: nucleic acid | | | | |
| | TOPOLOGY: linear | | | | |
| | CLONE: HUMGS06844 | | | | |
| | SEQUENCE DESCRIPTION: | | | | |
| 45 | GATCGTGTTT ACAGAGGACT TCTTTA | | | | |
| | AATGCATACT TAAGTAATAT TTAAGA TGCTTGTTGT CAATGACAAA AATAAA | | | IGCAGTGTTG | |
| | IGGILGILGI CAAIGACAAA AAIAAA | NOA IIIIUUIUII | AAA | | 163 |
| 50 | SEQ ID NO:5770 | | | • | |
| | SEQUENCE LENGTH: 253 | | | | |

| 5 | SEQUENCE TYPE:nucleic acid TOPOLOGY:linear CLONE:HUMGS06845 SEQUENCE DESCRIPTION: GATCTCCAAG AAGTGACTCT AGCAGAAGAT TTTATGGTGA TAAGCATNCC AATCANGAAA 60 TGAAACCAGT GTTCCTGAGT GCACACTGAC ATGTCTGTGA ATATGTTACT GAACCTATAG 120 TCCAGTTTTT TNATNTCTTG TTTTAGTCTG AAATNATTTG GGCCCTAATA ATCCTAAAAN 180 GAATGGAGCT GCATTGATGA ATTGGCTCAG TATTTAANGG GAGCAAACTT NTNGATAATA 240 NNTCTTTTNA GGN 253 |
|-----|---|
| 15 | SEQ ID NO:5771 SEQUENCE LENGTH:137 SEQUENCE TYPE:nucleic acid TOPOLOGY:linear CLONE:HUMGS06846 SEQUENCE DESCRIPTION: GATCTGAAAT ACTGACAGNG TTCCCCAAAG TTAGATATTA ACACAGCTTT TNACNTCTCT 60 TATGAGAACT TTACTGTAAA TATACCTTTA TCATAGAAAT GAGATATCA ATACCTNATG 120 GNGACTACAA AAAGGNN 137 |
| 25 | SEQ ID NO:5772 SEQUENCE LENGTH:371 SEQUENCE TYPE:nucleic acid TOPOLOGY:linear |
| .30 | CLONE:HUMGS06848 SEQUENCE DESCRIPTION: GATCCCAGAG TTCAGCCAGC CTGGGGTCCA GAACTCAAGA GTCCGCCTGC TTGGAGCTGG 60 ACCCAGCGGC CCANAGTCTA GCCAGCTTGG CTCCAATAGG AGCTCAGTGG CCCTAAGNAG 120 ATGGGCCTGG GGTGGGGGCT TATNAGTTGG TGCTAGAGCC AGGGCCATCT GGACTATGCT 180 |
| 35 | CCATCCCAAG GGCCAAGGGT CAGGGGCCGG GTCCACTCTT TCCCTAGGCT GAGCACCTCT 240 AGGCCCTCTA GGTTGGGGAA GNAAACTGGA ACCCATGGCA ATAATAGGAG GGTGTCCAGG 300 CTTGGGNCCC TNCCCTGGTN CTCCNAGTGT TTTGNTNGGG TAATAANTTG GANCTATGGG 360 CTCTNAATTG N 371 |
| 40 | SEQ ID NO:5773 SEQUENCE LENGTH:131 SEQUENCE TYPE:nucleic acid TOPOLOGY:linear |
| 45 | CLONE:HUMGS06850 SEQUENCE DESCRIPTION: GATCGCACAC TACGCTCCAG CCTAGGTGAC AGAGTGAGAC TCCATCTCAA CAACAACAAC 60 AACAAAAAAC CACAAAAACT ATATTTTTAA TCATGTTTGG TAGCTTGAAA ANTAAATNCT 120 TTCTGCCTAA A 131 |
| 50 | SEQ ID NO:5774 |

| 5 | SEQUENCE LENGTH: 254 SEQUENCE TYPE: nucleic TOPOLOGY: linear CLONE: HUMGS06851 SEQUENCE DESCRIPTION: GATCTGGAAA ANCTGCTGAC | | GACACAATAC | CACTGTCTTT | GGCTCTGGGG | . 60 |
|----|---|--|--|--|--|------------|
| 10 | NCAGTTGGCA TGCCAGGCCT GGTGGAGAAA CAGTGATGGT ATTGCAAAGC TCAAGGNCTG TACCTTNAAA AGGN | GACTGCCTAC TAATGCAGCA | TTTGGCCTAC GCTGGAGCTG | TTNAAATCTG TGGGCTCAGT | TGGTGTNAAG CGTGGGGCAG | 120 180 |
| 15 | SEQ ID NO:5775 SEQUENCE LENGTH:346 SEQUENCE TYPE:nucleic TOPOLOGY:linear CLONE:HUMGSO6852 | acid | | • (| | |
| 20 | SEQUENCE DESCRIPTION: GATCCTGGTG CTATGGTTTG TGTTTAACAG TATAAGGGGT GCCATTGTCA TGGAGTAGGT CTGCTGCCAT GCTGTCTGTN | GACTGGGCCA TAGTTTTCTC | TGTGAGCTCT TGGCGTGGGC | GCTCTCATGA TCCTGGCAAA | ATGGATTAAT AGGATGAGTT | 180 |
| 25 | GGATGACCCT CACCAGATAC GTGAGCCAAA TNAACTNGCT | | | | NTCCAGAGCN | 300 346 |
| 30 | SEQ ID NO:5776 SEQUENCE LENGTH:336 SEQUENCE TYPE:nucleic TOPOLOGY:linear CLONE:HUMGS06854 | acid | | | | |
| 35 | SEQUENCE DESCRIPTION: GATCCAGGGT GNCTAAAGAA GGATTCAGAC ACAGCAGTGG TAGTCTATCA CCCAACACAG GGGGAGTTTG GAGAGGGGCT ACCAGGGATA ACTATTTACT | TGCCAACGTG ATAAGACTGG AAAAGAAAGC | AATCTACCTC ACAGGGGCTC AGGTTAAGCC | GTNCTAGAGT CCAGGAACCA CCAANTGTAA | CTGAGTAGCC ACATCTAAGN CTGATTGATG | 180 240 |
| 40 | GTATTTGTNA ATTNTTNNNC | TTCTGNNTCT | CCTGTN | | | 336 |
| 45 | SEQ ID NO:5777 SEQUENCE LENGTH:65 SEQUENCE TYPE:nucleic TOPOLOGY:linear CLONE:HUMGSO6855 SEQUENCE DESCRIPTION: | acid | | | | |
| 50 | GATCTATTTA GGTGGAAATA TCAAA | GTTGTGGATG | TACTAAGAGT | AATGAAATAA | AATTATAGCT | 60 65 |

| | SEQ ID NO:5778 SEQUENCE LENGTH:127 | |
|----|--|---|
| 5 | SEQUENCE TYPE:nucleic acid | |
| | TOPOLOGY:linear | |
| | CLONE: HUNGSO6856 | |
| | SEQUENCE DESCRIPTION: | |
| | GATCTTGNGA CGAACTGAGC CACGAGCGTG GCTTTAAGGG CCGTCCGAAC GCTGCAGGCC 6 | C |
| 10 | GGCCAGGTCC CTGGGCGTCC AGGCCTGGCC TACGCACCAC TTTNTCCCTT AGCGTTTAAA 12 | |
| | domains 12 | 7 |
| | SEQ ID NO:5779 | |
| | SEQUENCE LENGTH: 118 | |
| 15 | SEQUENCE TYPE: nucleic acid | |
| | TOPOLOGY:linear | |
| | CLONE: HUNGS06857 | |
| | SEQUENCE DESCRIPTION: | |
| 20 | GATCCTATGT GAAAAGAAAA GTGAAGCAAC TGAATCTTCA GCATGTNCTC ATCGGCGGAC 6 | n |
| | CTTCTTGTGT AATGTAAACT GTGCCATGTT ATTAAAAAAT GTGAACTAAG CTTCCAAA 118 | _ |
| | | |
| | SEQ ID N0:5780 | |
| | SEQUENCE LENGTH: 259 | |
| 25 | SEQUENCE TYPE:nucleic acid | |
| | TOPOLOGY: linear | |
| | CLONE: HUMGS06858 | |
| | SEQUENCE DESCRIPTION: | |
| 30 | GATCTAGTAT AAACCTCACT TTACTCTTTT GGAATAAAGT GATTGGNTAG GACCCCATTG 60 | 1 |
| | CCAGGAATAA GANTCAATAT GCTGCTGAGA AGGAACCCAT GGTGTTGANG ATGTTGAAAA 120 | ı |
| | GACANCACAG TCAGTAACGT GGAGAAATGG CCTGGNTTCA ANTCTTGGCT CTGACACTTG 180 | ı |
| | GTAGGTATGA GACCTTGGAG ANGTTTCTGN NCCTCTCCAT GCTTCATTTT TNTGANGGTT 240 TATTGTGTGG TTTAANTTN 250 | |
| 35 | TATIGIGI ITTAANIIN 259 | |
| | SEQ ID NO:5781 | |
| | SEQUENCE LENGTH: 171 | |
| | SEQUENCE TYPE:nucleic acid | |
| | TOPOLOGY: linear | |
| 40 | CLONE: HUNGSO6859 | |
| | SEQUENCE DESCRIPTION: | |
| | GATCCTNAGC GGAGGTTAAG ATATTAAGTN ATTTCCCATA TGAATCAGAA TTATATTGAT 60 | |
| | TCTGTGCAAT CAAAACAAAA GGCAGANTAG AATGCTGAGA TTGGTTAAGT TTGCAATNAC 120 | |
| 45 | CATCTTGAAC CACAGATTTC TNCTATGTGT CATCAAAACA TCTAGTNNNG N 171 | |
| | SEQ ID NO:5782 | |
| | SEQUENCE LENGTH: 114 | |
| | SEQUENCE TYPE: nucleic acid | |

| | TOPOLOGY:linear CLONE:HUMGS06863 |
|----|---|
| | SEQUENCE DESCRIPTION: |
| 5 | GATCCTCAGA CCCTGCACAG CCCTGANTGG CTTCACATCT NTTGGTCAGT GTCTTCATTC 60 |
| | TCCCCAGTCA GGGACCTNGG ATGTTTGTTA CTNCCAGAAG CCCTTNCTCA CCCN 114 |
| | |
| | SEQ ID NO: 5783 |
| 10 | SEQUENCE LENGTH:55 SEQUENCE TYPE:nucleic acid |
| | TOPOLOGY: linear |
| | CLONE: HUMGS06864 |
| | SEQUENCE DESCRIPTION: |
| 15 | GATCACACTG TGAAGATACA CAGAGTCAAT AAATGTGCAC TGTAATGGAC TTAAA 55 |
| | antonored tangenties evangtows wastastore interingent lives 22 |
| | SEQ ID NO:5784 |
| | SEQUENCE LENGTH: 298 |
| 20 | SEQUENCE TYPE: nucleic acid |
| | TOPOLOGY: linear |
| | CLONE: HUMGS06865 |
| | SEQUENCE DESCRIPTION: |
| | GATCCTGGAG AGCTCCCAGA CTTTGCTCAG CGTTCTCANG AGGNAAGCTG GGAACCTGAC 60 |
| 25 | CAAGGCTACA GCCCCAGACC AGAAAAGTAG CGGCGGCAGG GACAGCTGAC CAGACCACGG 120 |
| | GCAGGGCCTG CNTCCNTNTG CCCCTCAGCT CAGCCCCAGC AAGTGTGTGC TCAGAGCATC 180 |
| | TTTGTTCTTC ACGGTAGCAG CTACCTTCCC TCACTGTCTC AGGTGCCGAG AGGGGCAGGT 240 |
| | GCCAGCCTNC ACTGGCATCA NTGACAAGNC CANGGCANGN NCCACCNGNG GGGTCCTN 298 |
| 30 | SEQ ID NO:5785 |
| | SEQUENCE LENGTH: 117 |
| | SEQUENCE TYPE:nucleic acid |
| | TOPOLOGY: linear |
| 35 | CLONE: HUMGS06866 |
| | SEQUENCE DESCRIPTION: |
| | GATCAATTGA TTGTTTAACA ATGGAATTTT GAGAAATATT TGGGTAGAAA AAAAACTAGT 60 |
| | TTTAAAAGAN GAGAATCCAA CCATTAAAAC ATCAAAANNT GANATTNTTT GTAAATN 117 |
| 40 | SEQ ID NO:5786 |
| | SEQUENCE LENGTH: 358 |
| | SEQUENCE TYPE: nucleic acid |
| | TOPOLOGY:linear |
| 45 | CLONE: HUMGS06869 |
| .~ | SEQUENCE DESCRIPTION: |
| | GATCAGCATG TGGACTGCAC TGTTTACTTT TGGTTGGACT GGGACAATTT GGGGAATATC 60 |
| | TACTATGTTT ATTCTTCAAG AACCCATCAT CCCATTAGAT GGAGAAACCT GGAGTTATCT 120 |
| | CATTGCTATA TGTGTCTGTC CTACTGCAGC ATTCTTAGGA GTTTATTATG CCTTGGNCAA 180 |
| 50 | ATTCCATCCA GCTTTGGTTA GCACAGTACA ACATTTGGAG ATTGTGGTAG CTATGGTCTT 240 |

| | GCAGCTTCTN GTGCTGCACA T TATGATTAGT GTTTTTNTCC T | | | | | 300 358 |
|----|--|-------------|------------|------------|------------|------------|
| 5 | SEQ ID NO:5787 | | | | | |
| | SEQUENCE LENGTH: 128 | | | | | |
| | SEQUENCE TYPE:nucleic a | cid | | | | |
| | TOPOLOGY: linear | | | | | |
| 10 | CLONE: HUNGSO6870 | | | | | |
| | SEQUENCE DESCRIPTION: | | | | | |
| | GATCTATGGG TAATTTTAAA TI | NTTGCCTGT | CAAGCTTAAN | AGGGACTTGA | CAACAGCTAG | 60 |
| | GATNGAAATN ATTTCAACAC T | | | | | |
| | TTNACAAN | | | | | 128 |
| 15 | | | | | | |
| | SEQ ID NO:5788 | | | | | |
| | SEQUENCE LENGTH: 339 | | | | | |
| | SEQUENCE TYPE: nucleic ac | cid | | | | |
| 20 | TOPOLOGY:linear | | | | | |
| | CLONE: HUMGS06871 | | | | | |
| | SEQUENCE DESCRIPTION: | | | | | |
| | GATCCACCTA CCTTGGCCTC CC | | | | | 60 |
| | CTGTATTTGG TGATATTTTA AA | | | | | |
| 25 | TCAGTTAGTA GTCCTNTTGG TA | | | | | |
| | TCATAGTGCT GTTTTCTTTC AT | | | | | |
| | AGGGCTACAG TTAGACCTCT TG | | | GTGATGGCTG | TGTTTCACAC | 300 |
| | TACCTTGATT TATAAATGTA NG | GTAATGTNG ' | TTAAATNGN | | | 339 |
| 30 | SEQ ID NO:5789 | | | | | |
| | SEQUENCE LENGTH: 343 | | | | | |
| | SEQUENCE TYPE: nucleic ac | rid | | | | |
| | TOPOLOGY: linear | | | | | |
| 35 | CLONE: HUNGS06872 | | | | | |
| | SEQUENCE DESCRIPTION: | | | | | |
| | GATCCINTGT ATAACATCGG GG | CCTTGCTC | AGGGGCTGTT | GCGTGGTTGC | CCTGCATTCG | 60 |
| | CTCCGNCGCA CCGCCTTCCG TA | | | | | |
| | TGTGTCCCAT GTGGGTTGTG CC | | | | | |
| 40 | CTATTCTGTC GTTTTGCTCC TT | | | | | |
| | ACTGTTTAAA NCCGGAGTNT TC | | | | | |
| | ANCAGTGGGG GTTTTAGAAN GC | | | | | 343 |
| 45 | SEQ ID NO:5790 | | | | | |
| | SEQUENCE LENGTH: 330 | | | | | |
| | SEQUENCE TYPE:nucleic ac | id - | * | | | |
| | TOPOLOGY: linear | • | | | | |
| | CLONE: HUMGS06873 | | | | | |
| 50 | SEQUENCE DESCRIPTION: | | | | | |

| | GATCATTATG TAGTTTCTGG ATTAAAA | AAA TTTGTGTGTC | AAGTTGCTTT | GTAAAGTGCA | 60 |
|----|-------------------------------|----------------|------------|------------|-----|
| | TGTGGAATTA ATGGGACAGT GTGCCCT | TTG TGTTAGATG | TAGAGCAAAA | GAAAGGGCTT | 120 |
| | ATAGTGTTAG TATTGGAGCA CTTTGAA | GAT AGATATTING | AGAAAAGATG | TAGGATTTAA | 180 |
| 5 | NAGTTAAATT TTAANTTTTA GAANANG | ATA TGATGGCAAT | TGGNAATAGT | CACAATGNNG | 240 |
| | TTCTTCATCC AGTNGGTGTT TAACCAG | TGT TNATTTTGC | NCTGGTAATG | TGGTNACCTG | 300 |
| | TGNGTGNTTT CCANTAGATG NGTTATG | GGN | | | 330 |
| 10 | SEQ ID NO:5791 | | | | |
| | SEQUENCE LENGTH: 265 | | | | |
| | SEQUENCE TYPE: nucleic acid | | | | |
| | TOPOLOGY: linear | | | | |
| | CLONE: HUNGS06874 | | | • | |
| 15 | SEQUENCE DESCRIPTION: | | | | |
| | GATCACCACA AAGTCTGGCT CAGTGAC | TAT GGCTTTGCAA | ACACTAAACA | TTCCTGTCTC | 60 |
| | AAGTCCTGTA GATGGCTTGA AATAGTA | TAC ATAAGCATGO | CTTATAAACA | TCTTCAGTCT | 120 |
| | TTATCAACTC TTTGGAGATT CAGCCAT | TCT TTTTTGTACT | TTAGGGAATT | AAATCANNNN | 180 |
| 20 | ATAATGTATA AATCTGAGCA TGGCCGA | TGG CAGAAGANA1 | TTTGTCATAC | GTTTTTAAAG | 240 |
| 20 | ANNTAAGANT GTATTATGTT TTAAA | | | | 265 |
| | SEQ ID NO:5792 | | | | |
| | SEQUENCE LENGTH: 191 | | | | |
| 25 | SEQUENCE TYPE: nucleic acid | | | | |
| | TOPOLOGY: linear | | | | |
| | CLONE: HUMGS06875 | • | | | |
| | SEQUENCE DESCRIPTION: | | | | |
| | GATCAGAAAC CCTCATTTAA TATAGAT | TAT TTTGGAAATN | AAAAAATTTG | TAACAAGGTG | 60 |
| 30 | GCTTTCTTAC CCACCCTAAA ATGTAAA | | | | 120 |
| | TAGTGTCACC TAAATCGTAT GTGTATG | | | | |
| | NUNNUTHIT N | | | | 191 |
| 05 | SEQ ID NO:5793 | | | | |
| 35 | SEQUENCE LENGTH: 204 | | | | |
| | SEQUENCE TYPE: nucleic acid | | | | |
| | TOPOLOGY: linear | | | | |
| | CLONE: HUMGS06876 | | | | |
| 40 | SEQUENCE DESCRIPTION: | | | | |
| | GATCTTGTCT TTATCTACTT TCTTCAG | TAA ACTCTGGAAC | AAAAAAACTT | CCTGGAAGTT | 60 |
| | TGGGCAATCA TTTGCCATTA TTTNCCT | | | | 120 |
| | GTAGTATGGG ACATTATGTA TTTNGGT | | | | |
| 45 | AAACAGAATG ACAAGTTCCT TAAA | .2.0 | | | 204 |
| | SEQ ID NO:5794 | | | | |
| | SEQUENCE LENGTH: 237 | | | | |
| | SEQUENCE TYPE:nucleic acid | | | | |
| 50 | TOPOLOGY: Linear | | | | |

| | CLONE: HUMGS | | | | | | |
|----|---------------|------------|-------------|--------------|----------------|------------|-----|
| | SEQUENCE DE | | CCCTCCCCTC | | TT1 1 T1 T1 T1 | TGTAGATATA | - |
| 5 | | | | | | NTGTCAGGNT | |
| | | | | | | CCCNCATGCT | |
| | | | | AAAACTGGAC | | | 237 |
| | INCIANIACA | INCCCITCCC | CATAGCCATC | AAAAC I GUAC | CAACIGGACA | NIICCIN | 231 |
| 10 | SEQ ID NO:5 | | | | | | |
| | SEQUENCE LE | | | | | | |
| | SEQUENCE TY | | acid | | | | |
| | TOPOLOGY: li | | | | | | |
| 15 | CLONE: HUMGS | | | | | | |
| 75 | SEQUENCE DE | | 00000000000 | | 00080.0808 | | • |
| | GATCAAAAGC | | | | | | |
| | TGTTTTCTCT | | | | | | |
| | TTTGCCTGAN | | | | IIIAANÇAAI | AIGCAGAIGA | |
| 20 | CCTAGCACAA | AIAANGANIG | CIAGCAACCG | CVVV | | | 214 |
| | SEQ ID NO:5 | 796 | | | • | | |
| | SEQUENCE LE | NGTH: 187 | | | | | |
| | SEQUENCE TY | PE:nucleic | acid | | | | |
| 25 | TOPOLOGY: 1 i | near | | | • | | |
| | CLONE: HUMGS | 06880 | | | | | |
| | SEQUENCE DE | | | | | | |
| | GATCAAGTGA | TACTAGGAAT | ATAGGTACAA | GTAAGACTGT | CATTTNCATT | GTTTTCTCTT | 60 |
| 30 | TGGACTGATT | | | | | | |
| | GCTGTAATCA . | ACTCCCTNGC | TGCCCAAACA | CCAGCCTNAT | ACACAACACC | ANCAGGTCCN | |
| | GCNTNGN | | | | | | 187 |
| | SEQ ID NO:5 | 797 | | | | | |
| 35 | SEQUENCE LE | NGTH: 247 | | | | | |
| | SEQUENCE TY | PE:nucleic | acid | | | • | |
| | TOPOLOGY: 1i | near | | | | | |
| | CLONE: HUMGS | 06882 | | | | | |
| | SEQUENCE DE | SCRIPTION: | | | | | |
| 40 | GATCTTTNAG | TGCTTTGGGG | ATGGGGTGGG | CTGGGGTGGA | TGGATGGGCA | ACAGTGACTT | 60 |
| | TAATTACCCT | TGCTGCTCTG | CATTTNCCAG | TTTATNCTTT | TGTTTCTTTT | ATCTGACTGA | 120 |
| | CTCTGTCAAA | | | | | | - |
| | ATGACACAAA | GCCTTATGAN | ANTNTTTATG | GAGTTCAATA | AAAGANGTAA | GAGGTCAANC | 240 |
| 45 | CNNAGGN | | | | | | 247 |
| | SEQ ID NO:5 | 798 | | * | | | |
| | SEQUENCE LE | NGTH: 106 | | | | | |
| | SEQUENCE TY | | acid | | | | |
| 50 | TOPOLOGY: 1i | near | | | | | |

55

TOPOLOGY: linear

| | CLONE: HUNGS06883 SEQUENCE DESCRIPTION: | | | | |
|----|--|--------------|------------|------------|------------|
| | GATCTTCCCA ATATGAACAA ATATACTAT | G TATATNGTGT | GTATTTCTAG | AAATCAATGG | 60 |
| 5 | CAGCTGCTGA TGGNGTTGTA ATTAGAANT | | | | 106 |
| | SEQ ID NO:5799 | | | | |
| | SEQUENCE LENGTH:214 SEQUENCE TYPE:nucleic acid | | | | |
| 10 | TOPOLOGY: linear | | | | |
| | CLONE: HUMGS06884 | | • | | |
| | SEQUENCE DESCRIPTION: | | | | |
| | GATCAGGACC TACGTTAAGG TGGATTTTN | AAATTTATTA A | ATTCTGATTT | TGTTTTATTT | 60 |
| 15 | TTAATTAATC TTTGGGGGAA GGATGGGAG | | | | |
| | CCTATTGGAT ACAATGTTTA ATATTTGTG | | CTGGAAGCCC | AAACCTCACT | 180 214 |
| | ATTACACAGT ACATTCATGT AACAAGCCT | G CAAA | | | 214 |
| 20 | SEQ ID NO:5800 | | | | |
| 20 | SEQUENCE LENGTH: 119 | | | | |
| | SEQUENCE TYPE:nucleic acid | | | | |
| | TOPOLOGY: linear | | | | |
| 25 | CLONE: HUMGSO6885 SEQUENCE DESCRIPTION: | | | | |
| 25 | GATCCTTAAT GGTGGCCAGA GCTACCATG | C AGTGCAAAAA | TAAATTAAGT | GAAAATGTAT | 60 |
| | TATTGAGATT AACAGTGCAA GGCCAATAC | | _ | - | 119 |
| | SEQ ID NO:5801 | | | | |
| 30 | SEQUENCE LENGTH: 339 | | | | |
| | SEQUENCE TYPE: nucleic acid | | | | |
| | TOPOLOGY:linear | | | | |
| | CLONE: HUNGSO6886 SEQUENCE DESCRIPTION: | | | | |
| 35 | GATCCTCAGT GAAGTGCATT CGGAATGAG | G ATGGAACTTG | GTTAACACCA | AATGAATTTG | 60 |
| | AAGTCGAAGG AAAAGGAAGG AACGCAAAG | | | | ••• |
| | CGACCCTAGG AGAGCTGCTN AAGAGTGGA | C TTTTGCTCTG | TCCTCCAAGA | NTAANTCTCA | 180 |
| | AGAGAGATT AAATAGCAAG TGAATTTCT | | | | |
| 40 | TCCCTGTCTG GAGGCTCACC TTAGAGCTT | | AAGCTCTGAG | GTCAACCTNC | |
| | ACATTTTGGG CAATGGCATC TTCAAAAAC | A ATTAATITN | | | 339 |
| | SEQ ID NO:5802 | | | | |
| 45 | SEQUENCE LENGTH: 381 | | | | |
| | SEQUENCE TYPE:nucleic acid TOPOLOGY:linear | | | | |
| | CLONE: HUMGS06888 | | | | |
| | SEQUENCE DESCRIPTION: | | | | |
| 50 | GATCTCCAAG CGAACTCAGC CTCCTCCCA | A GCTCCCTGTG | GGTCCTAGCC | ACAAGCTCTC | 60 |

| | CAACAATTAC TATTGCACTO | GCGATGGCCG | NCGGGAATCT | GTGCCCCCTT | GCATCATCAT | 120 |
|----|------------------------|------------|------------|------------|------------|-----|
| | GTCGTCGCAG AAGGCGCTGC | TGTCAGGCAA | GCCAGCAGAG | AGCTCTGCTG | TAGCTGCCAC | 180 |
| | TGAGAAGAAG GCGGTGACTC | CAGCTCCTNC | CATAAAGAGG | TGGGAGCTGT | CCTCGGACCA | 240 |
| 5 | GCCTTACCTG TGACATTNCA | CCNTNACGNC | CACCCGNCTA | CTTTTGCCTN | CTTTGGATTT | 300 |
| • | NCTTCAGGGN GAATNTTGAG | CTAATTGTAT | GACAATTTAC | GTAGGGGCTC | AGGTATTCAC | 360 |
| | TTCTGAGGTN TTACTTTTT | N | | | | 381 |
| 10 | SEQ ID NO:5803 | | | | | |
| | SEQUENCE LENGTH: 150 | | | | | |
| | SEQUENCE TYPE: nucleio | acid | | | | |
| | TOPOLOGY: linear | | | | | |
| | CLONE: HUMGS06889 | | | | | |
| 15 | SEQUENCE DESCRIPTION: | | | | | |
| | GATCTACACA TGTTGCCTTG | | | • | | |
| | CTATATTTGA TTATGTATGG | | | ATTGTCTTGA | TGTTTTTCCT | |
| | GTAATGTAAA TAAACTATTT | ATATCACAAA | | | | 150 |
| 20 | SEQ ID NO:5804 | | | | | |
| | SEQUENCE LENGTH: 276 | | | | | |
| | SEQUENCE TYPE:nucleic | acid | | | | |
| | TOPOLOGY: linear | | | | | |
| 25 | CLONE: HUNGS 06890 | | | | | |
| | SEQUENCE DESCRIPTION: | | | | | |
| | GATCCTAAGC AAAATCGGAG | ACTTGAACAA | AGTTTGTTTC | TEGCTETNTE | CCCTTCCATT | 60 |
| | TTCTGTTCTC TTCTTTCTCC | CTGGAGATGA | NAGAACACAG | AATCANATTN | CCAACCTCTC | 120 |
| | TCTCCNATGN ACTCTCTCAT | CCCCCAGCCC | AGCCACATTT | ACACATAGGG | CAGACACATC | 180 |
| 30 | TCACACAAAG GAAGTACCCC | TAAAGACCTC | ACATAAATAA | ACACTAGCAA | ANTTCAAGTT | 240 |
| | GNNTCTTGGC AAANGTAGTN | NTGGGTATGT | NAGTCN | | | 276 |
| | SEQ ID NO:5805 | | | | | |
| 35 | SEQUENCE LENGTH: 219 | | | | | |
| | SEQUENCE TYPE: nucleic | acid | | | | |
| | TOPOLOGY: linear | | | | | |
| | CLONE: HUNGS06891 | | | | | |
| | SEQUENCE DESCRIPTION: | | | | | |
| 40 | GATCANGTTC NGGGCTCTNT | | | | | |
| | TGAACATCAT GTTTGTAGAC | GCTGACAGGT | GGGGTCCTAA | TNAGAGCCAA | CACATGCTCA | 120 |
| | CTGCCAGCNC CTGCCCTGAG | | | AAGCCCTTGT | | |
| | NGNNGGCTGG TATCCCGACT | TGGAAGATGA | GGAAACTNN | | | 219 |
| 45 | SEQ ID NO:5806 | | | | | |
| | SEQUENCE LENGTH: 191 | | | | | |
| | SEQUENCE TYPE: nucleic | acid | | | | |
| | TOPOLOGY: linear | 001 U | | | | |
| 50 | CLONE: HUNGS06893 | | | | | |
| | | | | | | |

| 5 | SEQUENCE DESCRIPTION: GATCAGTTTT NTGCTGAAGG CACCTACTCA GTATCTTTTC CTCTTTATCA CTCTGCATTG GTGAATTTAN TCCTCTCCTT TGTGTTCAAC TTTTGTNTGC TTTTAAAATC AGCTTTATTC 1: TAAGCAAATC TGTGTCTACT TTAAAAAACT GGAAATGGAA AAAAAATTAA ATCTNNGCCA 1: GGTCCTTCAA A | 20 |
|------|--|----------------|
| 10 | SEQ ID NO:5807 SEQUENCE LENGTH:206 SEQUENCE TYPE:nucleic acid TOPOLOGY:linear | |
| 15 | CLONE: HUMGSO6894 SEQUENCE DESCRIPTION: GATCTGCAGC TTCGCGGGGA CAGAGATGTA ACCCAACTCG TTCACGGATG TNCCGCGCGC 6 CGTGTCACCG GCTGCGGGCC AGGGGTACTC GGAAGGCGCG GGCAGGAGCC TNGCGAGGAT 12 GCACCTTCCC CTGCNTTGGA AAGGTAGAAC TGGGGAGTGC GGGAGGNTGA AGGTGGCCCG 18 GAAAAGAACA CCTNTTCGCA ACCAAA 20 | 20 |
| 20 | SEQ ID NO:5808 SEQUENCE LENGTH:55 SEQUENCE TYPE:pucleic acid | |
| 25 | TOPOLOGY:linear CLONE:HUMGS06895 SEQUENCE DESCRIPTION: | 55 |
| 30 | SEQ ID NO:5809 SEQUENCE LENGTH:197 SEQUENCE TYPE:nucleic acid TOPOLOGY:linear | |
| 35 · | CLONE:HUMGS06896 SEQUENCE DESCRIPTION: GATCTGGTTT NATTCCTGTA ATTCAGCCAC CTGATTTGCT TGAGGGGGNG GNATANTATG 6 TGGGTTTTTG TACAAACATG TTTCTCAGTG TGTTGTTATT TTGGAAAAAA TGAGGGGAGG 12 GAGTTTTGCA AGAATGNGAG AAAATGANTG AAGAAGGCCT AATCNTCTCT CTTTTTCCAG 18 | 20 |
| 40 | TGGATTNAAT GGGNCCN 19 |) 7 |
| 45 | SEQ ID NO:5810 SEQUENCE LENGTH:344 SEQUENCE TYPE:nucleic acid TOPOLOGY:linear CLONE:HUMGS06897 SEQUENCE DESCRIPTION: | |
| | GATCCAATGA TTTAATTTTT GGGAAGAAAA ATCCAGTGAT TAAAGTCATG CAAGGAGATG 6 | - |
| 50 | GCCTGGGGCT TGCTAAAAGT CAGGTTGCAG TTTCCATTGC ATTCAAGAAA ATCAGAAAAA 12 TAAATACAAC TTTTAGAAGA AACTGAGTTT TCTCCCATTC ATGTTTAGCT ATTGGGGGGGT 18 | |

| | CTCATACTTC TGGACTTGCT | TAGACCTATG | CTATCTAATA | TGGTNGCCTC | TGCCCATCCA | 240 |
|----|---------------------------------------|------------|------------|-------------|------------|-----|
| | TATGTGGCCA CTTGGGAACT | TGGAAATGTN | ACTAGTTTTG | AATTAAGGTG | TGCTNGTAAC | 300 |
| | TAAAATNCAC CCTGNGGTNT | CAAAGGCTNN | AATAAANGNA | NGGN | | 344 |
| 5 | | | | | | |
| | SEQ ID NO:5811 | | | | | |
| | SEQUENCE LENGTH: 111 | | | | | |
| | SEQUENCE TYPE: nucleic | acid | | | | |
| 10 | TOPOLOGY:linear | | | | | |
| 10 | CLONE: HUMGS06898 | | | | | |
| | SEQUENCE DESCRIPTION: | | | | | |
| | GATCTATCTC CCTGTTAGGT | GTNCTTTTTC | TCCTCTTTAG | AAAGNAGCCA | AGGNAACCAG | 60 |
| | GGTTCTCTCA AAGTGGAAAA | TACTGGAACT | NATGTACTGN | TATCATAATG | N | 111 |
| 15 | | | | | | |
| | SEQ ID NO:5812 | | | | | |
| | SEQUENCE LENGTH: 169 | | | | | |
| | SEQUENCE TYPE:nucleic | acid | | | | |
| 00 | TOPOLOGY: linear | | | | | |
| 20 | CLONE: HUMGS06899 | | | | | |
| | SEQUENCE DESCRIPTION: | | | | | |
| | GATCCATTGC TTTTAGACAG | | | | | 60 |
| | TCTTACAGCT AAGCTGGCCC | | | | TTAATATT | |
| 25 | GTCTCATTGT CTCATTTAGA | AACATCCANA | TNTTNCTGCT | GTGNCTATN | | 169 |
| | 480 ID NO 5010 | | | | | |
| | SEQ ID NO:5813 | | | | | |
| | SEQUENCE LENGTH: 112 | | | | | |
| 30 | SEQUENCE TYPE:nucleic TOPOLOGY:linear | acid | | | | |
| 30 | CLONE: HUNGS06900 | | | | | |
| | SEQUENCE DESCRIPTION: | | | | | |
| | GATCAGTAAC TTTATCTCTA | TCCTTAATGA | AC ATTGTTT | TATTCCTCCC | TGGAAATATT | 60 |
| | TCTATTGTAT TTCTGTGTAT | | | | | 112 |
| 35 | TOTALIUTAL LICIOIOTAL | AIMMIMAAIA | MALIANIIII | Iddoololiik | AA | 116 |
| | SEQ ID NO:5814 | | | | | |
| | SEQUENCE LENGTH: 271 | | | | | |
| | SEQUENCE TYPE:nucleic | acid | | | | |
| 40 | TOPOLOGY: linear | | | | | |
| | CLONE: HUMGS06901 | | | | | |
| | SEQUENCE DESCRIPTION: | | | | • | |
| | GATCAGCAGC TCGGAAGACT | CAGATGCCGA | AAACTCGTCC | TCCCGAGAGC | TGGATGACAG | 60 |
| | CAGCAGTGAG TCCAGTGACC | | | | | |
| 45 | AGAACCTTGC TGACCCCCAA | GCAGNAGACA | GACCTCTGGT | TTNNTTTGAC | CTCAAGATNG | 180 |
| | ACAATGAAAG TGGGTTCTCC | TGGGGCTACC | NNNACCONTT | TCTAATTTAG | TCTCTNGAGT | 240 |
| | CCCAAAAAGA AGTNCAGGCA | GAGCCATCTN | N | | | 271 |
| | | | | | | |
| 50 | SEQ ID NO:5815 | | | | | |

| 5 | SEQUENCE LENGTH:317 SEQUENCE TYPE:nucleic acid TOPOLOGY:linear CLONE:HUMGS06902 SEQUENCE DESCRIPTION: | |
|----|---|---|
| | GATCATGAAA AGAAAAATNA ATGGCAGGAA AAAAGTTTGG TCCTTAATAT ACTTTGGCCT 60 |) |
| | AGTNAAAATA TGTGCCTTTT TGGTGTGTTT TGTTCATCAC TACAAGATAA AAAGGAAACA 120 |) |
| 10 | TTACANCTCA AGGCTTTAAA AAGTTCATTT ATTGAAAATC ATATGTATAG CCTAGCATAC 180 |) |
| | GAATGTGCAG TTTTAAACAC ATAGCTTCAA GCCATTTCTG NAAGCATNCA CCGGGNGCTC 240 | |
| | TGCTCAGNTA GAGTCAGNCT CCNNGCTCCA GNCCGACTGC GTGCGGGGGA CCAGCGGCCG 300 | |
| | CGTTNNATGG NGGGNCN 317 | |
| 15 | SEQ ID NO:5816 | |
| 75 | SEQUENCE LENGTH: 294 | |
| | SEQUENCE TYPE: nucleic acid | |
| | TOPOLOGY: linear | |
| | CLONE: HUMGS06903 | |
| 20 | SEQUENCE DESCRIPTION: | |
| | GATCTAGGAG AGGCGGCTCT GAACGAGTAC CTGCGGGTCA AGACAGTGAC CTTCGATTAC 60 |) |
| | TGAAGAAAGG TCTTTNTGAG AAGAAAGTCC CTGCCCCTCC CTCGTGGCTG GGGTCCCCTC 120 |) |
| | CCTCTTGAGC CTNGGTGCAC AGCANCTCCC ACCTGGGGGG CTAGTGGAAG CCCTCCTGCC 180 | ì |
| 25 | TGCACACCAT GTCTGCATCT TGGACGNCCT CTGTCCAGTC AGAAGCAGCC CTTGGNTNNG 240 | } |
| | GGTGAGNTGT GNCCCTTCCA GGGGGAATAA AGCTTCTGAA GAGAGACCGT CAAA 294 | ļ |
| | • | |
| | SEQ ID NO:5817 | |
| 20 | SEQUENCE LENGTH: 263 | |
| 30 | SEQUENCE TYPE:nucleic acid | |
| | TOPOLOGY: linear | |
| | CLONE: HUMGS06904 | |
| | SEQUENCE DESCRIPTION: | |
| 35 | GATCAAAATC AATGGGAAGG TGCTGCCAAG GTGTCCTAAG CTTCTAGGAT AATATTNATN 60 | |
| | CTCTCAGGGT TTTGGAACTG CTGCCCAAAG TCATAGTTCT CAGTCCTGGG TGTGAGTCAG 120 | |
| | ANTCACCTGT GGAGCCTGGC AAACCTTACA GACACCCTGG CTCCAGCCCT GGAGATTTTN 180 | |
| | ATTTANTGGA AATATCACTT AGAATTCTAT TGTAAGCAAT AAAAGTNTAT TCTCACTAAA 240 | |
| 40 | CTTTCAAAAA NTNGNGNTGN NNN 263 | , |
| 40 | . CPO ID NO.CO10 | |
| | SEQ ID NO:5818 SEQUENCE LENGTH:199 | |
| | | |
| | SEQUENCE TYPE:nucleic acid TOPOLOGY:linear | |
| 45 | CLONE: HUMGS06906 | |
| | SEQUENCE DESCRIPTION: | |
| | GATCTTTCCC NTTTGGATGT GCGTGTGTGT CTGCNTGTGC CATGTGCGTG GCACGCATAT 60 |) |
| | GAAGTGTGTG TGCGTGTGAA CGGCTTTGGG TCCTGCTGGT TTTNCTGTGA GCTNCAGTGT 120 | |
| 50 | TCTGTGGGTC TGTGGTATCT NACACTGTGG NCATTAATGT ACTTCTTGGA CATTTTAATA 180 | _ |

| | AATTTTTNAA CAGTTCAAA | | | | | 199 |
|----|---|--|--|--|--|------------|
| 5 | SEQ ID NO:5819 SEQUENCE LENGTH:104 SEQUENCE TYPE:nucleic TOPOLOGY:linear | acid | | | | |
| 10 | CLONE:HUMGS06909 SEQUENCE DESCRIPTION: GATCANAAAA CCTAAANTCC AGANTCTGGA CAAATAGGAC | | | | GACACCAAGA | 60 104 |
| 15 | SEQ ID NO:5820 SEQUENCE LENGTH:343 SEQUENCE TYPE:nucleic TOPOLOGY:linear | acid | | | | |
| 20 | CLONE:HUMGS06910 SEQUENCE DESCRIPTION: GATCGAACGG ACTNTAAATC AACTCCGTGT AACGATTCTA GCCCTGGAGC CCCAGCCCCT | AGTGTAGTGT | NGTAGGACCC | CGACGGGTNT | GGCAGCAACT | |
| 25 | CGTCCCTAAG AAGGTTCTTN TACGNATACT CCATCGATGT CNTTNNGCTT TACGAAGCCG | AAGATGTTTA TGTATTTGGN | TTTTATATAG GGGGGGTGNG | TCCTNTTTTA GAATTCTTGT | CTGGAAGACG | 240 |
| 30 | SEQ ID NO:5821 SEQUENCE LENGTH:106 SEQUENCE TYPE:nucleic TOPOLOGY:linear CLONE:HUMGS06911 | acid | | | | |
| 35 | SEQUENCE DESCRIPTION: GATCACTTGA GCCCAGGAGT ATAGTTTTAA TGTCTTTNAT | | | | AACACTAAGC | 60 106 |
| 40 | SEQ ID NO:5822 SEQUENCE LENGTH:350 SEQUENCE TYPE:nucleic TOPOLOGY:linear CLONE:HUMGS06912 SEQUENCE DESCRIPTION: | acid | | | | |
| 45 | GATCCATTCC AGCCACTCGG GGGGACCCGT TTAGTGGAAA GCCTCTGCCT CGGGCTTTGC ACCCCACTCC CTTCCGCTTG TCCCAGCTTC TTTAGCCTCT | AGACCCATTT AGACTTCACC CAGCTTCCCT | GTCCCCTCCT TCTGTAAGTT GGGATTTTNG | CTGCAGCTAA GAGTCCTCCG TNTCCTTTTA | ACCTTCTAAG NCTCCGGGCC AAGGCAAACC | 180 240 |
| 50 | CACTGCCACT TCTGTAAGAA | | | | | 350 |

| 5 | SEQ ID NO:5823 SEQUENCE LENGTH:163 SEQUENCE TYPE:nucleic TOPOLOGY:linear CLONE:HUMGS06913 | acid | · | | | |
|----|--|--------------------------|--------------------------|--------------------------|-------------|------------|
| 10 | SEQUENCE DESCRIPTION: GATCTCGTCT CTAAATAAAA GGGCAATAAT TGAAATCTGT CATTTATATC TATTNTNAGT | TGAAGCTGGG | TACACAAAAG | TNCATTATGT | | |
| 15 | SEQ ID NO:5824 SEQUENCE LENGTH:180 SEQUENCE TYPE:nucleic TOPOLOGY:linear CLONE:HUMGS06915 | acid | | | | |
| 20 | SEQUENCE DESCRIPTION: GATCAGTGGT TTCCATTGTC CAAGGGAACT CCTTGGTGGT AAGAANTCTA CATATGTNAT | GATGGAACTG | CTCTGTATCT | CAAATGTCTG | TATCTTTAGA | |
| 25 | SEQ ID NO:5825 SEQUENCE LENGTH:247 SEQUENCE TYPE:nucleic TOPOLOGY:linear | acid | | | | |
| 30 | CLOME:HUMGS06916 SEQUENCE DESCRIPTION: GATCAGTGAA ATCCTAGGGT CAAATAGGTC TCCATGGGAG TGTTGGTGTC TCCACAAGTA NAGACTTTTT AANCTCAAGG | ATACATTATG GGTAANCATG | TAAATAAATA TTTAAAGGAA | AACAATGGTT CCCGGGTTCT | TGCTGGTTCC- | 120 180 |
| 35 | TGTCAAA | CIGNOCATAA | UINCIIUAAN | ATAANTOOT | | 247 |
| 40 | SEQ ID NO:5826 SEQUENCE LENGTH:169 SEQUENCE TYPE:nucleic TOPOLOGY:linear CLONE:HUMGS06917 SEQUENCE DESCRIPTION: | acid | | | | |
| 45 | GATCAAGAAT TGCAAAAATG TCCAAATCAT GTCCTTAGAA CACAATGTAA CAATATAANN | AATCTTTCTA | TTGAAAAGGA | GACTAAATTG | | |
| | SEQ ID NO:5827 SEQUENCE LENGTH:268 | | | • | | |

| | SEQUENCE TYPE: nucleic | acid | | | | |
|----|------------------------|------------|------------|------------|-------------|-----|
| | TOPOLOGY:linear | | | | | |
| | CLONE: HUMGS06919 | | | | | |
| 5 | SEQUENCE DESCRIPTION: | | | | | |
| | GATCACCTCC GGGCACAGGA | TGCGAGGAAC | TGTTGACATT | CAGGGATGTG | ACCATAGAAT | 60 |
| | TCTNTCTGGA GGAGTGGGAG | TTTCTNAACC | CTGCTCAGCA | GAGTTTGTAT | AGGAAAGTNA | 120 |
| | TGCTAGAGAA CTACAGAAAC | CTGGTCTCTN | TGGGTCTTAC | TGTTTCTAAG | CCAGAACTGA | 180 |
| 10 | TTAGCCGTCT GGAGCAAAGA | CAGGAGCCCT | GGAATGTGAA | GAGACATGAG | ACCATAGCCT | 240 |
| | GGGCGACAGA GCGAGACTCC | GTNTCAAA | | | | 268 |
| | SEQ ID NO:5828 | | | | | |
| | SEQUENCE LENGTH: 219 | | | | | |
| 15 | SEQUENCE TYPE: nucleic | acid | | | | |
| | TOPOLOGY: linear | | | | | |
| | CLONE: HUMGS06920 | | | | | |
| | SEQUENCE DESCRIPTION: | | | | | |
| 20 | GATCTGTGCC CAGAGACGGG | | | | | |
| | GGCCGAAGAA GGGTCCTTCC | | | | | |
| | TGCCACCTGC TGCTGCTGCT | | | CTNCTTGCTG | NCTTTAAGTC | |
| | GCTGAGGGAA AAATAAATGA | CAAATTGCTT | GNGNCCAAA | | | 219 |
| 25 | SEQ ID NO:5829 | | | | | |
| | SEQUENCE LENGTH: 153 | | | | | |
| | SEQUENCE TYPE:nucleic | acid | | | | |
| | TOPOLOGY: linear | | | | | |
| | CLONE: HUMGS06922 | | | | | |
| 30 | SEQUENCE DESCRIPTION: | | | | | |
| | GATCATAAGT NCTTCTATCT | GCTGAGCTTT | TANTTATTA | TTTGGACAGA | AAGTTTGGTG | 60 |
| | GGAAGGTTGC AATAAAATCA | GAATCTCTCT | TGTNTGAATT | ATGCAGTTTA | ACCCTGTCCA | 120 |
| | TGGNNNGGCT GTACTCTATT | CTNACTGTAT | TTN | | | 153 |
| 35 | | | | | | |
| | SEQ ID NO:5830 | | | | | |
| | SEQUENCE LENGTH: 172 | | | | | |
| | SEQUENCE TYPE:nucleic | acid | | | | |
| 40 | TOPOLOGY: linear | • | | | | |
| 40 | CLONE: HUMGS06923 | | | • | | |
| | SEQUENCE DESCRIPTION: | | | | | |
| | GATCTTGTTT TNATTAAATA | TGCCAGTTTG | TATTTNCCTG | CCTTGGGATT | TTTTTGTGTC | 60 |
| | CGCTGTACAG TATTCTAAGG | | | | | 120 |
| 45 | TGGCTATGGT GTAGAGACCT | CTTTCTAATA | AAGAAATGAA | AATATGTCTA | AA . | 172 |
| | SEQ ID NO:5831 | | | | | |
| | SEQUENCE LENGTH: 96 | | | | | |
| | SEQUENCE TYPE:nucleic | acid | | | | |
| 50 | TOPOLOGY·linear | | | | | |

| 5 | CLONE: HUMGS06927 SEQUENCE DESCRIPTION: GATCCCAGGG AAGACGTCTC AGTAAACCCT CAATAAATAT | | | CAGCCCTTAT | CGCTGTACCC | 60 96 |
|-----------|---|--------------------------|--------------------------|---|------------|-----------|
| 10 | SEQ ID NO:5832 SEQUENCE LENGTH:228 SEQUENCE TYPE:nucleic TOPOLOGY:linear CLONE:HUMGS06928 | acid | | | | |
| 15 | SEQUENCE DESCRIPTION: GATCACTGTA TTAATTTTGG ATTTTNCCTT TTTTTCCGAT CTCCCATCCA CTCATAAGCT CTCTGCTTTC TGTATAAAGG | TAGGCTTTGG TGGTACAAAA | TCAGCATTTT ACTTCTCTGG | NCATTTAAAG CAGTTACTTT | AAAAGTAACA | |
| 20 | SEQ ID NO:5833 SEQUENCE LENGTH:109 SEQUENCE TYPE:nucleic TOPOLOGY:linear | acid | | | | |
| 25 | CLONE:HUNGS06929 SEQUENCE DESCRIPTION: GATCTTTCTG CTTTCGAAGG GAAAATGTAA AGAACATTGG | | | *************************************** | ATTTCCAAAT | 60 109 |
| 30 | SEQ ID NO:5834 SEQUENCE LENGTH:160 SEQUENCE TYPE:nucleic TOPOLOGY:linear | acid | | | | |
| 35 | CLONE:HUMGS06930 SEQUENCE DESCRIPTION: GATCTGTGTT TGGAAAGAAA CCTAATTAAA AAATATGTAT TCGCAAAGAC GTAATAAAAT | CCTCTATAAT | NAGTTATNAC | | | |
| 40 | SEQ ID NO:5835 - SEQUENCE LENGTH:77 SEQUENCE TYPE:nucleic | acid | | | | |
| 45 | TOPOLOGY:linear CLONE:HUMGS06931 SEQUENCE DESCRIPTION: GATCGACCGG CACCGCTGTT AGGCCCTGCC TGGGAAA | GCCTCGTAAG | CCATAGCGCA | TGCGCGCTCT | CAGAATAAAC | 60 77 |
| 50 | SEQ ID NO:5836 | | | | | |

| | SEQUENCE LENGTH:137 SEQUENCE TYPE:nucleic TOPOLOGY:linear | acid | | | | |
|----|---|------------|------------|------------|--------------|-----|
| 5 | CLONE: HUNGS 06932 | | | | | |
| | SEQUENCE DESCRIPTION: | | | | | |
| | GATCANATAA CAGAATGCAC | | | | | |
| | GACAGGCAGA AAGAGTTTNA | NACCTGAATA | GCTCCCANAT | TTCAGTCTTT | TCCTGTTTTT | |
| 10 | GTTAACTTTG GGTTAAA | | | | | 137 |
| | SEQ ID NO:5837 | • | | | · | |
| | SEQUENCE LENGTH: 402 | | | | | |
| | SEQUENCE TYPE:nucleic | acid | | | | |
| 15 | TOPOLOGY: linear | | | | | |
| | CLONE: HUMGS06933 | | | | | |
| | SEQUENCE DESCRIPTION: | | | | | |
| | GATCCAGCTT CATTCAACAT | TACTACCAGT | TATTTGATAA | TNATAGAACC | CAACTAGGCG | 60 |
| | CAATTTACAT TGACGCGTCA | TGCCTTACGT | GGGAAGGACA | ACAGTTCCAG | GGGAAAGCTG | 120 |
| 20 | CCATTGTGGA GAAGTTGTCT | AGCCTTCCGT | TCCAGAAAAT | TCAGCACAGC | ATCACCGCGC | 180 |
| | AGGACCATCA GCCCACTCCA | GATAGCTGCA | TCATCAGCAT | GGTTGTGGGC | CAGCTTANGG | 240 |
| | CGGNTGAAGA CCCCATCATG | GGNNTNCGCC | AGATGTTCCT | ATTAAAGAAC | ATCAACGATG | 300 |
| | NTTGGGTTTG CACCAATGNC | ATGGTTCAGG | CTCGTCCTGC | NCANNTTTGG | CTGNCCTNCT | 360 |
| 25 | TTGCAGNTTG GGNACTNANG | NTGTTTGCTT | GCTGCCTTTT | GN | | 402 |
| | 000 ID NO.5000 | | | | | |
| | SEQ ID NO:5838 | | | | | |
| | SEQUENCE LENGTH: 261 | | | | | |
| 30 | SEQUENCE TYPE:nucleic | acid | | | | |
| | TOPOLOGY: linear | • | | | | |
| | CLONE: HUMGS06934 SEQUENCE DESCRIPTION: | | | | | |
| | • | CACCCTCCAC | LCCCCTCCLC | TOTOCOGICO | 00000 A TOTO | |
| | GATCTTCGTA ACGGCCTCGG CTGCTGAGTG GCCAAGATGA | | | | | |
| 35 | CATGCACACC CGTCTTTCCA | | | | | |
| | TCTGAGGCCG GCTCAGCAGT | | | | • | |
| | AACCAGCAAC TNCCTCGNAA | | CCCIGGGGGC | Idaycccyag | CICCIAAAIA | 261 |
| | AMOUNDONNO INCCICUNAN | n. | | | | 201 |
| 40 | SEQ ID NO:5839 | | | | | |
| | SEQUENCE LENGTH: 158 | | | | | |
| | SEQUENCE TYPE:nucleic | acid | | | | |
| | TOPOLOGY:linear | | | | | |
| 45 | CLONE: HUNGS 06935 | | | | | |
| 45 | SEQUENCE DESCRIPTION: | | | | | |
| | GATCTCGGCT CACTGCAACC | TCTGCCTCCC | GAGTCCTGGT | TCAAACTATT | CTCCTGCCTC | 60 |
| | ANTCTCCTGA GTAGCTGGGA | CTACAGNNAC | GAGCCACCAC | ACCCTNCCCC | CGNATCCCCT | 120 |
| | GCCTCCATCC TAGTAAAGAC | TCCTTGCTAT | GCTGCAAA | | | 158 |

| 5 | SEQ ID NO:5840 SEQUENCE LENGTH:127 SEQUENCE TYPE:nucleic acid TOPOLOGY:linear CLONE:HUMGS06936 SEQUENCE DESCRIPTION: | |
|----|---|----------------|
| 10 | GATCAGTTTT GCCAAGGGGC CAGAATTATT CCTTGTTAGA ATTGCTCCAG TTCAAGTCTG CTGCTTTCCT ACAGTTTTTC AAATTTTATA ATGTATTAAA TACAATAAAC TCTGTTTAAA 1 | 60 20 27 |
| 15 | SEQ ID NO:5841 SEQUENCE LENGTH:232 SEQUENCE TYPE:nucleic acid TOPOLOGY:linear CLONE:HUMGS06937 | |
| 20 | SEQUENCE DESCRIPTION: GATCAAAGAA AATTTATCTC TTTTTATAAA CTTAAGGACA GTTGCAAAAG GCTTCAAGGA ATTTATCTCA ACATTATTCT TTCTATGTCC TAACTAAATT CCTCAACTGT NATGANTTTT 1 CCANCTACTT CTTGAACAGT GGTCTATNCT GCTACATGAN GATGAATACA AACAANNTTN 1 | |
| 25 | SEQ ID NO:5842 SEQUENCE LENGTH:290 SEQUENCE TYPE:nucleic acid | 5 2 |
| 30 | TOPOLOGY:linear CLONE:HUMGS06938 SEQUENCE DESCRIPTION: GATCTCCAGN GCGCAGTGGG TTGGAGGAAG TACTACGTGA CAGCTGGGGG AGCCTAGCCC TTGTNTGGGN ACTCACACAT CCACTCTAAC CCTTCTNACC ACAGGTCCGG CCGCCCCATT 1 | 60 20 |
| 35 | AGCTTCATNG TGGTTTTCAT CACCCCCAAC CCCCTGAGCA AGATTTCCTG GGTCAACAGG 1 TTACATTTGG CCANAATCGG ACTCCGTGAG TATAGCCCCA GGGAGAGTGC CTNAGGGGGC 2 | 80 |
| 40 | SEQ ID NO:5843 SEQUENCE LENGTH:198 SEQUENCE TYPE:nucleic acid TOPOLOGY:linear CLONE:HUMGS06939 SEQUENCE DESCRIPTION. | |
| 45 | SEQUENCE DESCRIPTION: GATCTTGTGA CATTCCTTCT CCTGGACAAT NAGTCTCAGG AGCTCCTCAC CAAGCACCTT GTTACCCCCA CCCCTGCCCA CAAGAGAAAA CGCACGTTAA CTGTAATTTN TCCACTACCT 1 ACCCAAATCC TATAAAACTG CCCCACCCCA TCTCCTTTTG CTGACTCCAG GTGATTAAAN 1 AACTATTGCT CAGGGAAA 1 | 20 |
| 50 | SEQ ID NO:5844 | |

| 5 | SEQUENCE LENGTH: 255 SEQUENCE TYPE: nucleic acid TOPOLOGY: linear CLONE: HUMGS06941 SEQUENCE DESCRIPTION: | |
|----|---|----------------|
| 10 | GATCTTTTT CTAACACATA TTTGAACTGA ATAACAGACT TAAAGAAAGC CTTTGTTCAC 6 ATTGCTATTT ACTNTTGTGT TTGGGGGAAA ATACGAGGGA TTGATTTTAA ATAAAAAACA 12 TTCCNTCTTT CATTNAATAT CAGTATCAAA AGAGGNNGAC AAACATCTAT CTTTCTCATC 18 TNTATTNAAG TNCCTTTTTG TANTGTAGTA TCAANGTTTT TTAGGTGNTG CAAGGTTTTA 24 CAANTCATTT GTGGN 25 | 20 80 40 |
| 15 | SEQ ID NO:5845 SEQUENCE LENGTH:318 SEQUENCE TYPE:nucleic acid TOPOLOGY:linear CLONE:HUMGS06942 | |
| 20 | SEQUENCE DESCRIPTION: | |
| 25 | GNCGATTCTG GTACCATCAA GTTTCCCCGA GTTTCATCTN TCCGNCTCTC CTTNCACCNC 24 TNTTGCCATG TTAGCAGNAN CNANAGCAGC AGCATACGGC CGCAAACNGG GTGTCNAGTC 30 AAGNANGGTT GCAGCAGN | 0 |
| 30 | SEQ ID NO:5846 SEQUENCE LENGTH:54 SEQUENCE TYPE:nucleic acid TOPOLOGY:linear CLONE:HUMGS06943 | |
| 35 | SEQUENCE DESCRIPTION: GATCGGAGGT TGGGTTCCTG ATTAAACTTC ACTGTGTGTT TTCTATNTCG GAAA 54 | 4 |
| 40 | SEQ ID NO:5847 SEQUENCE LENGTH:127 SEQUENCE TYPE:nucleic acid TOPOLOGY:linear CLONE:HUMGS06945 | |
| 45 | SEQUENCE DESCRIPTION: GATCAGAGAN TTACCACCCC TGCTTNGAAG CAGTGTTGGT GTATTCCCAC TAAAATAAAC 60 CAACTGGTAT AACATTCCCT GGAGCTTAAT AAGCACTCAA TAAATATTTG TNGANTAAAN 120 ANAGAAN 127 | 0 |
| 50 | SEQ ID NO:5848 SEQUENCE LENGTH:212 SEQUENCE TYPE:nucleic acid | |

| | TOPOLOGY:linear CLONE:HUMGS06946 SEQUENCE DESCRIPTION: | |
|----|---|----|
| 5 | GATCTGCAGA TTCCAAATGG GAATAAGCTC TATCATATTC TGAAACAAGA ATTAGAATGN | 60 |
| | CTTGAGAACG GGCAAATAAC AAAGCAAACC AATATAATTA TATGGTCATT CTGACCCCAG 1 | 20 |
| | CTCTTATACA NNTTATACAT GTATTTTTGT GTATGTTTGT GAGAGTTGTA TGTATGTGAA 1 | 80 |
| | TGNGTGTGAG TGTGTATTCA CATACACATA TN 2 | 12 |
| 10 | SEQ ID NO:5849 | |
| | SEQUENCE LENGTH:213 | |
| | SEQUENCE TYPE:nucleic acid | |
| | TOPOLOGY: linear | |
| 15 | CLONE: HUNGSO6947 | |
| | SEQUENCE DESCRIPTION: | |
| | GATCATAAGG TGAAGTCCCA CAATAGGCCG TCTGCAAGCT GAGAAGCAGN GNAAGCCAGT 6 | 30 |
| | CTGAGTCCCA AAACCCTAAC AGTAATCCTT THCTAACGTC AGGNTGCGTA TCGACCTGTG 12 | 20 |
| | TGTGCACATT TGCTGTGCAG AGTGTGCACT GCTGAGGAGA ATGGTGCCCA AGAAGGGCAC 18 | 30 |
| 20 | TGTTTGNCCC AAANTNTTNC AANTAANCAT TGN 21 | 13 |
| | SEQ ID NO:5850 | |
| | SEQUENCE LENGTH: 65 | |
| 25 | SEQUENCE TYPE: nucleic acid | |
| | TOPOLOGY:linear | |
| | CLONE: HUMGS06948 | |
| | SEQUENCE DESCRIPTION: | |
| | GATCATCTTG AATTACTGTG GGATGTANGT TTCAAAATTT TCAAATAAAG CCTTTGCAAG 6 | 0 |
| 30 | A T A A A | 5 |
| | SEQ ID NO:5851 | |
| | SEQUENCE LENGTH:55 | |
| 35 | SEQUENCE TYPE: nucleic acid | |
| 55 | TOPOLOGY:linear | |
| | CLONE: HUMGS06949 | |
| | SEQUENCE DESCRIPTION: | |
| | GATCACATAC TGCAGTCCAG CCTAGGCAAC GGNGCAAGAC GTCATCTCAA GGAAA 5 | 5 |
| 40 | | |
| | SEQ ID NO:5852 | |
| | SEQUENCE LENGTH: 186 | |
| | SEQUENCE TYPE: nucleic acid | |
| 45 | TOPOLOGY: linear | |
| 70 | CLONE: HUNGS06951 | |
| | SEQUENCE DESCRIPTION: | |
| | GATCTCCCCA AATCCATTGN INTCACCAGG CCCTCCCAGA ACCTCCTCAG ITCCTTCACA 60 | |
| • | GTGCAACCCT NTGTACTTGG CCCGCAACCC ANTAGTATTG TGCCTCACTT CACCTTCCAT 120 | 0 |
| 50 | GGGCAACTGC CCTCCCTTCT GGACATAAAA CCTNATATNT TAAATAAAGT TGAANTATGN 180 | 3 |

| | NAAGAN | | 186 |
|----|--|----------------------------|------------------------|
| 5 | SEQ ID NO:5853 SEQUENCE LENGTH:102 SEQUENCE TYPE:nucleic acid | ı | |
| 10 | TOPOLOGY:linear CLONE:HUMGS06952 SEQUENCE DESCRIPTION: GATCAACTGA AAAAAGCATG ACTT | TTGAAA TCTCTGAATG CCTTGGTT | |
| | ATNOTTNATT GAATTTATTT CTNA | TTAAAN TATGTAGTTT TN | 102 |
| 15 | SEQ ID NO:5854 SEQUENCE LENGTH:97 SEQUENCE TYPE:nucleic acid | | |
| | TOPOLOGY:linear CLONE:HUMGS06953 | | |
| 20 | SEQUENCE DESCRIPTION: GATCATGTGG AGTGAAAGGC AAATG CATCGCTGTT TCCAATAAAT ATTGG | | CA CCACAGGAAG 60 97 |
| | SEQ ID NO:5855 | | |
| 25 | SEQUENCE LENGTH:308 SEQUENCE TYPE:nucleic acid | l. | |
| | TOPOLOGY:linear CLONE:HUMGS06954 | | |
| 30 | SEQUENCE DESCRIPTION: GATCTGTCCA GTTTGTGTAT GAAA: TTTTGGGATT AATAAGTGAT TTANA | | |
| | AAGATATTCT ACAAGTNATG ANGC | TAAGGG AAGAAAATGC CAAAGATA | CC TCTAGTTATG 180 |
| 35 | TTGANCACAG CCAGCACAGT TTCG. GTGAAAACNC TTATTTNGGA AANTO NACCCCCN | | |
| | SEQ ID NO:5856 | | |
| 40 | SEQUENCE LENGTH:128 SEQUENCE TYPE:nucleic acid TOPOLOGY:linear | ř | |
| | CLONE: HUMGS06955 | | |
| 45 | SEQUENCE DESCRIPTION: GATCCCAAGT GTTTAGAAAA CTAAA AGAATTTAAA GAGAAGCTGA ACAA CCATTAAA | | |
| | | | |
| 50 | SEQ ID NO:5857 SEQUENCE LENGTH:143 | | |

| 5 | SEQUENCE TYPE:nucleic TOPOLOGY:linear CLONE:HUMGS06956 | acid | | | | |
|----|--|-------------|--------------|------------|--|-----|
| | SEQUENCE DESCRIPTION: GATCTTAAAA ACTGCAGTAT GGTTGGAGGG AGGAGAAG TCAATAAAAA TTGTTAAGGG | ACAGAGGAGC | | | | |
| | SEQ ID NO:5858 SEQUENCE LENGTH:235 SEQUENCE TYPE:nucleic TOPOLOGY:linear | acid | | | | |
| 15 | CLONE: HUNGS 06957 SEQUENCE DESCRIPTION: | OTOCOTOTA L | CCCACTAATC | | AACCGAACTG | ŘΩ |
| | GATCCGTGGA AATAGCCTGG GGAGGCAGCC GTTTAGTCCT | CCCTGCCCTG | CCCACTGCCT | GGATGGGGCG | ATGCCACNNN | 120 |
| 20 | GTCATCCTTC ACCCAGCTCT | | | | | |
| 20 | ATCTTTGCTC TGTACAATCG | GGCTCTTTAC | AATAAAACCT | TCCTGCTTNC | ACAAA | 235 |
| 25 | SEQ ID NO:5859 SEQUENCE LENGTH:258 SEQUENCE TYPE:nucleic TOPOLOGY:linear CLONE:HUMGS06959 | acid | | | | |
| | SEQUENCE DESCRIPTION: | | a=21001000 | 0.0000000 | 44444444444444444444444444444444444444 | |
| 30 | GATCCAGTAC TATCAGAATG | | | | | |
| | CCATGTGCCC TCAAAGCTGT | | | | | |
| | CACATGCAGT NGAGGAGAGG CGTGGNTGGC GCACTTTGGT | | | | | |
| | GCTGTTNTAT GCACAGGN | AACUCCATUU | AVIII ACVACA | NOUMITOURA | IGGGNINGGI | 258 |
| 35 | dordrinini donondan | | | | | |
| 40 | SEQ ID NO:5860 SEQUENCE LENGTH:309 SEQUENCE TYPE:nucleic TOPOLOGY:linear CLONE:HUMGS06960 | acid | | | | |
| | SEQUENCE DESCRIPTION: GATCAGATTA CCAGGAACAT | ACCACTCCAT | TOUTGOOCOL | ACCAAACCGC | ATTCCTCTCC | RΛ |
| | ATTTTTTAT TCAACTTAAT | | | | | |
| | TGGAGCCCTT AAGATGCACG | | | | | |
| 45 | GCGGGGNCCT GGNGATAAAC | | | | | |
| | TTAGNTNGGT GAAACATTTT | | | | | |
| | TAAATNCGN | | | | | 309 |
| 50 | SEQ ID NO:5861 | | | | | |

| | SEQUENCE LENGTH: 179 | | | | | |
|----|------------------------|------------|------------|------------|------------|-----|
| | SEQUENCE TYPE: nucleic | acid | | | | |
| | TOPOLOGY: linear | : | | | | |
| 5 | CLONE: HUMGS06961 | | | | | |
| | SEQUENCE DESCRIPTION: | | | • | | |
| | GATCATGTGG ACCAGAGCAA | ANNAAAGTTC | AGTTTGTGTC | ACAATTCATT | GCCAGACTTC | 60 |
| | ATTGGAATGC TTTGTTTGAT | | | | | |
| | TGGGCAATGA AGTCTAACTT | | | | | |
| 10 | 10000.2110.1 | • | | | • | |
| | SEQ ID NO:5862 | | | | | |
| | SEQUENCE LENGTH: 341 | | | | | |
| | SEQUENCE TYPE:nucleic | acid | | | | |
| 15 | TOPOLOGY: linear | | | | | |
| | CLONE: HUMGS06963 | | | | | |
| | SEQUENCE DESCRIPTION: | | | | | |
| | GATCGTGGTG GTGGGGACTG | GAGACCGGAC | CGAGAGGCTG | CAGTCCCAGG | TGCTTCAAGC | 60 |
| | CATGAGGCAG CGGGGCATTG | | | | | |
| 20 | CAACTTCCTG TGTCATGAAG | | | | | |
| | GACTTCACTT ACATCTTTGG | | | | | |
| | CTGCACTCTG CCAGGCTTCC | | | | | |
| | NGGCTTATCA ACATAATAAT | | | | | 341 |
| 25 | NUUCIINICA ACAIAAIAAI | IIdalacaac | IMITIOODE | | | |
| 23 | SEQ ID NO:5863 | | | | | |
| | SEQUENCE LENGTH: 60 | | | | | |
| | SEQUENCE TYPE:nucleic | anid | | | | |
| | TOPOLOGY: linear | aciu | | | | |
| 30 | CLONE: HUNGS06964 | | | | | |
| | SEQUENCE DESCRIPTION: | | | | | |
| | GATCTGGTGA AAATAGGATT | ACATTGGAGC | CAATTGAATA | AATTTATTCT | TTCAATCAAA | 60 |
| | GAICIGGIGA AAAIAGAII | ACATIGUAGE | CARTIGAATA | AMITATIO | TIONATONIA | 00 |
| | SEQ ID NO:5864 | | | | | |
| 35 | SEQUENCE LENGTH: 359 | | | | | |
| | SEQUENCE TYPE:nucleic | aaid | | | | |
| | TOPOLOGY: linear | aciu | | | | |
| | CLONE: HUMGS06965 | | | | | |
| 40 | SEQUENCE DESCRIPTION: | | | | | |
| | GATCTGGGAG GTGGAAGCCA | CCCCAGAGGA | CTTGGGGAAA | ATAAGATGGA | GGAAGGAAAA | 60 |
| | AGGGAGAAGC TGAGCCACAG | | | | | |
| | CCACCCCAGG AGAGGACCTC | | | | | |
| • | CAGACTGAGA AACCCAGAAG | | | | | |
| 45 | | | | | | |
| | GGAAACCAAA ATNAGCCCAC | | | | | |
| | TTCTGCTCCT TCCNCACGGT | TICCCIGCIA | INGLICCCAG | CIUCIIUIAA | CAGGGCCVV | 252 |
| | CPA IN NA. COCE | | | | | |
| 50 | SEQ ID NO:5865 | | | | | |
| | SEQUENCE LENGTH: 170 | | | | | |

| _ | SEQUENCE TY TOPOLOGY: 1 i CLONE: HUMGS | near 06966 | acid | | | | |
|----|--|---------------|------------|------------|------------|------------|-----|
| 5 | SEQUENCE DE | | | | | | |
| | GATCATGGCT GTAAAAATAT | | | | | | |
| | GTATGAATTG | | | | | | 170 |
| | VINIUMALIU | INIUUINIII | AAATTIMACC | ICANIAANUC | IUIIAIOAAA | | 110 |
| 10 | SEQ ID NO:5 | 866 | | | | | |
| | SEQUENCE LE | NGTH: 187 | | | | | |
| | SEQUENCE TY | PE:nucleic | acid | | | | |
| | TOPOLOGY: 1 i | near | | | | | |
| 15 | CLONE: HUMGS | | | | | | |
| | SEQUENCE DE | • | | | | | |
| | GATCAGAGCA | | · · · | | | | 60 |
| | TATTTAACAT | | | | | | |
| 20 | GCTAACTGAA | TTATTTCTGT | GITCIACICI | GGGCTCTCAC | ATTAAAACTC | TGTTCAAAAA | 187 |
| | GTTTAAA | | | | | | 101 |
| | SEQ ID NO:5 | 867 | | | | | |
| | SEQUENCE LE | | | | | | • |
| 25 | SEQUENCE TY | PE:nucleic | acid | | | | |
| | TOPOLOGY: 1i | near | | | | | |
| | CLONE: HUMGS | 06969 | | | | | |
| | SEQUENCE DE | SCRIPTION: | | | • | • | |
| 30 | GATCTTGGAC | TTCCCAGCCT | CCAAAACTGT | GAGAAATAAA | CTCCTGTTGT | TTGTAAA | 57 |
| 00 | | | | | | | |
| | SEQ ID NO:5 | | | | | | |
| | SEQUENCE LE | | : 4 | | | | |
| | SEQUENCE TY | | acia | | | | |
| 35 | CLONE: HUMGS | | | | | | |
| | SEQUENCE DE | | | | | | |
| | GATCATGGTC | | CTAATAAGTC | CACATCTTCT | CAGTGTTTTA | GCTGTTTTTT | 60 |
| | TCATTAGGNT | TCCTTNTATT | CTGTACCTTG | CAGCCATGAC | CAGTTCTGGC | CAGGAGCTGG | 120 |
| 40 | AGGAGCAGGC | AGTGNGTGGG | AGCTCCTNTT | AGGTAGANTT | TAACATGACT | TCTGCCCCAG | 180 |
| | CTTNATCTGT | CACACANGTN | TGTGGCACCN | CTAGTGCTAC | TGCTAGGATA | TCACTTACTC | 240 |
| | AGTTAGATTT | TTCCNAAAAA | NTAAGCTTTT | AATTNATTTC | TTTGGTGTN | | 289 |
| | CPA IN NA F | 000 | | | | | |
| 45 | SEQ ID NO:5 SEQUENCE LE | | | | | | |
| | SEQUENCE TY | | acid | | | | |
| | TOPOLOGY: 11 | | | | | | |
| | CLONE: HUMGS | | | | | | |
| 50 | SEQUENCE DE | | | | | | |

| | GATCTCCTCT TCCACCTCTT | CCTGGTTCCT | TTGCGGGGAA | AATTGCACTA | AAACAGAACC | 60 |
|----|------------------------|------------|------------|--------------|------------|-----|
| | TTTTCTTAAT CCATGTTGGA | AGGAAGCAAC | AGTGAACTCT | ACCTGTTCTG | GAGITCTCCT | 120 |
| | GGGTCTGCAG AAGGTTGGGA | ATTTAGAAAA | TAAGGCTGTT | CTTTCATATT | TAATTTAAT | 180 |
| 5 | CTCTGTCAAT GGCCATCCCT | CCCACAAAAA | AACGTGGGTT | AAGAGAACTT | GCAGACTGGA | 240 |
| | TATGCAAGCA AACGGGCANC | TCTGGAGAAA | ANTANGGNAN | GGAATGCTGA | CTTTCTCTTT | 300 |
| | CTNTCTCTTT GTCCCCACAC | CNNTTCCCAN | CCCAATTACT | GGGGTN | | 346 |
| | | | | | | |
| 10 | SEQ ID NO:5870 | | | | | |
| 70 | SEQUENCE LENGTH: 187 | | | | | |
| | SEQUENCE TYPE: nucleic | acid | | | | |
| | TOPOLOGY: linear | | | | | |
| | CLONE: HUMGS06973 | | | • | | |
| 15 | SEQUENCE DESCRIPTION: | | | | | |
| | GATCCCGACC CTCACCAGTC | | | • • | | 60 |
| | TCACCCCAAT GTTCCACACC | | | | | |
| | GGAATGGGGC GTATATGTTA | GTGTTGCTGC | AACAATAAAG | CCTGTTGCAT | CTCTCATGCC | |
| 20 | AGTGAAA | | | | | 187 |
| 20 | | | | | | |
| | SEQ ID NO:5871 | | | | | |
| | SEQUENCE LENGTH: 135 | | | | - | |
| | SEQUENCE TYPE:nucleic | acid | | | | |
| 25 | TOPOLOGY: linear | | | | | |
| | CLONE: HUMGS06975 | | | | | |
| | SEQUENCE DESCRIPTION: | | | ************ | mm | 60 |
| | GATCINGGAC TICCAGAAAA | | | | | |
| 30 | CAATCTGAAG TATTTNGTTA | TGGCAGTCCT | NGGCAGACIA | AIACAAIAIG | CAACACATTI | 135 |
| | ACAATANATA TACAN | | | | | 133 |
| | SEQ ID NO:5872 | | | | | |
| | SEQUENCE LENGTH: 138 | | | | | |
| | SEQUENCE TYPE:nucleic | acid | | | • | |
| 35 | TOPOLOGY: linear | acru | | | | |
| | CLONE: HUMGS06977 | | | | | |
| | SEQUENCE DESCRIPTION: | | | | | |
| | GATCAAATAA TGATGTTAAA | TTCTTAAATC | ATATTTGCTA | TGCAGCTGAA | GATGATATTT | 60 |
| 40 | TGATTTGTAT TTTGGGGGTA | | | | | |
| | TGCTTCCAAA CTAGTAAA | | | | | 138 |
| | | | | | | |
| | SEQ ID NO:5873 | | | | | |
| 45 | SEQUENCE LENGTH: 189 | | | | | |
| 70 | SEQUENCE TYPE: nucleic | acid | | | | |
| | TOPOLOGY: linear | | | · | • | |
| | CLONE: HUNGS06978 | | | | | |
| | SEQUENCE DESCRIPTION: | | | | | |
| 50 | GATCGGCGGG GCACAGTGGC | TOGTGOOTGT | AATCCCAGCA | CTTTGGGAGG | CCTAAGCAGG | 60 |

| | CTGGTCGCTT GANCCCAAGA AATTTATATT ATTTAAAAAN NNAAANNAN | | | | | |
|----|---|--|--|--|--|------------|
| 5 | SEQ ID NO:5874 SEQUENCE LENGTH:98 SEQUENCE TYPE:nucleic TOPOLOGY:linear | acid | | | | |
| 10 | CLONE:HUMGS06979 SEQUENCE DESCRIPTION: GATCTGACTC TTCATTTNTA AGACTCCCAT CTCACAATAA | | | TCATTTNCTA | GTTTTTNACC | 60 98 |
| 15 | SEQ ID NO:5875 SEQUENCE LENGTH:182 SEQUENCE TYPE:nucleic TOPOLOGY:linear | acid | | . : | | |
| 20 | CLONE: HUMGSO6981 SEQUENCE DESCRIPTION: GATCTGCCGG CTCCCGCCCA AATTCTACAA TCCCGCTGGG | | | | | 60 120 |
| 25 | CCCTNGGGGG CCATTCGATT AA SEQ ID NO:5876 | CGCCTCAGTT | GCTGCTGTAA | TAAAAGTCTA | CTTTTTGCTA | 180 182 |
| 30 | SEQUENCE LENGTH:87 SEQUENCE TYPE:nucleic TOPOLOGY:linear CLONE:HUMGS06982 SEQUENCE DESCRIPTION: | acid | | | | |
| 35 | GATCTTGTTT TNCCTCATCT GGAGAAGGGA ATAACATAAT | | GTTAACAAAG | CTTTTCTGCC | CACTTCTTGG | 60 87 |
| 40 | SEQ ID NO:5877 SEQUENCE LENGTH:315 SEQUENCE TYPE:nucleic TOPOLOGY:linear CLONE:HUMGS06983 SEQUENCE DESCRIPTION: | acid | | | | |
| 45 | GATCTTTGGC AGCGCATATG AGTGAAGATG GGTGACTAGA GCTGGTTTTC CTGGGACAGC GGGCCCTCCC TGCACTCCCC NNGTCCTCAG TGCGGGGAGC | TGATATGTGT TGGAGCTGTG TCTTGCTGCG | GGGTNGGGCC TCCTTTAGCC TGTTGATTTG | GNGCCTCACT TTTCAGAGGC GAGGCACTGC | TTTATNTATT TTNGTGTTCA AGTCCAGGNN | 180 240 |
| 50 | NCNNCANCTG CACCN | | | | | 315 |

| 5 | SEQ ID NO:5878 SEQUENCE LENGTH:190 SEQUENCE TYPE:nucleic TOPOLOGY:linear CLONE:HUMGS06984 | acid | | | | |
|----|---|--------------------------|--------------------------|--------------------------|--------------------------|------------|
| 10 | SEQUENCE DESCRIPTION: GATCTNTTT TTTTTGGTAG ATCCCTATGC TAATACTTTT GTGCCCTTTT NNTTTACAGA ANCTCTTAAA | TAAAACATTA | CTAGTGAGTG | CCCTAAAACA | TTACTAGTGA | 120 |
| 15 | SEQ ID NO:5879 SEQUENCE LENGTH:322 SEQUENCE TYPE:nucleic TOPOLOGY:linear CLONE:HUMGS06985 | acid | | · | | |
| 20 | SEQUENCE DESCRIPTION: GATCTCTATT ATNAGGCTAG TGCACTGTAA GTTGCCCTTC AACGGTGGCA GAGTCTCCTT | TATTAGCAGC | CAAGGAAAAG | GGAAACATGA | GCTTATCCAG | |
| 25 | TATAGCTCAT TATAGGACGT TCAGAATCCT GTTTCATTGG TNAGNTGTAG NNNGNGTGNT | TGACTTGGGT | | | | |
| 30 | SEQ ID NO:5880 SEQUENCE LENGTH:247 SEQUENCE TYPE:nucleic TOPOLOGY:linear CLONE:HUMGS06986 | acid | | | | |
| 35 | SEQUENCE DESCRIPTION: GATCATGGAA TACAAGATAA ATGTCAGCAT TGCAACCACC TAAGTGTCAA ANTCTTAGAN TGGATGATGA GAAATTATCG TCTCAAA | ATGGCAAATA GAAATTGTCA | TTGATTTAAT TATCTTAGAC | AANCAATTAC AATTTAGANG | TATTCCCAGA TGATGGAGGG | 120 180 |
| 40 | CPA IN NA.FOOT | | | | | |
| 45 | SEQ ID NO:5881 SEQUENCE LENGTH:51 SEQUENCE TYPE:nucleic TOPOLOGY:linear CLONE:HUNGS06987 SEQUENCE DESCRIPTION: | | | | | |
| 50 | GATCCACAGT GTTGGGCACA | ACTITICACUT | TICTIMAMA | AAAAATTTAA | ۸ | 51 |

| | SEQ ID NO:5882 | |
|----|---|---|
| | SEQUENCE LENGTH: 276 | |
| - | SEQUENCE TYPE: nucleic acid | |
| 5 | TOPOLOGY: linear | |
| | CLONE: HUMGS06988 | |
| | SEQUENCE DESCRIPTION: | |
| | GATCCTTGAT TGGTGAAAGG ATACACAAAA TCAGGCTGCT TCAGAGGAAG TCATCTGCTC 6 | 0 |
| 10 | ACAGGAATCA GGGTGAAGGC CAAGGACGGC ACTCAAGAAT TGNCCTGTCT CTAAAAAAAA 12 | |
| | AGCATCTGCA ACGAACTTCC TTTAATTTTT GAGTTCAGTG TCTGTGATAA TTAAGAAATG 18 | |
| | GCANTACCAT GTATTTNCCC CAGAAGTTAA GANATATTGC TGNACGGACC ANTAAAAGTA 24 | |
| | ATTNCAGCTC CCTCAAGNAN NATGNGGTGN GGGNGN 27 | |
| 15 | SEQ ID NO:5883 | |
| | SEQUENCE LENGTH: 54 | |
| | SEQUENCE TYPE:nucleic acid | |
| | TOPOLOGY: linear | |
| | CLONE: HUNGS06989 | |
| 20 | SEQUENCE DESCRIPTION: | |
| | ALBORROOM COMPANY COMPANY | , |
| | GATCGCGCCA CTTCTCTCTA GCCCAGGCAA CAGAAAGAGG CCCCATCTCA GAAA 54 | * |
| | SEQ ID NO:5884 | |
| 25 | SEQUENCE LENGTH: 72 | |
| | SEQUENCE TYPE:nucleic acid | |
| | TOPOLOGY: linear | |
| | CLONE: HUMGS06990 | |
| 30 | SEQUENCE DESCRIPTION: | |
| 30 | GATCCTTAAT TGCTACCACA TTTCAAACAA GAACTATGAC CAATTAAACT TTACTGTTGT 60 |) |
| | TGAACTGCCA AA 72 | ? |
| | SEQ ID NO:5885 | |
| 35 | SEQUENCE LENGTH: 267 | |
| | SEQUENCE TYPE: nucleic acid | |
| | TOPOLOGY: linear | |
| | CLONE: HUMGS06991 | |
| | SEQUENCE DESCRIPTION: | |
| 40 | GATCCNTTGG GAATCCAGTT GAAGTTCCCA AATACTTTAT AAGAGTTTAT CAGACATCTC 60 |) |
| | TAATTTGGCC ATGTCCAGTT TATACAGTTT ACAAAATATA GCAGATGCAA GATTATGGGG 120 |) |
| | GAAATCCTAT ATTCAGAGTA CTCTATAAAT NTINGTGTAT GTGTGTATGT GCGTGTGATT 180 |) |
| | TACCAGAGAA CTACTNAAAA NAACCAACTG ATTNTTTNAA TCCTANTGTG TAGGTTAAAG 240 | |
| 45 | TGTCATGCCN TNNACCANTN CTAATGN 267 | • |
| | SEQ ID NO:5886 | |
| | SEQUENCE LENGTH: 164 | |
| | SEQUENCE TYPE:nucleic acid | |
| 50 | TOPOLOGY: linear | |

| | CLONE: HUNGS06992 |
|----|---|
| | SEQUENCE DESCRIPTION: |
| _ | GATCATAAAA ATAGCAGNGC ATGTTNCCTG ATGATTTTAC AGTGCATATT GTCATGGCCA 60 |
| 5 | GGGCTTAGAG GTAGGGGAAA AACATGTGGA CAGCTTTGTG ACAAGAGTCT CTCTTATAGT 120 |
| | GTTTCTTTCT AAAGTAACTT TTTCTGAGTA TGAATGTNNN NNNN 164 |
| | SEQ ID NO:5887 |
| 10 | SEQUENCE LENGTH: 341 |
| | SEQUENCE TYPE:nucleic acid TOPOLOGY:linear |
| | CLONE: HUMGS06993 |
| | SEQUENCE DESCRIPTION: |
| | GATCCATGCA AATTGTCGCA TCCGACGGGT TAACTTCTCA GACAGACTCT ACTCAGANGA 60 |
| 15 | TGAGCTGCCG GCAGAGTTCA AACTGTATCT CCCAGTTCAG AACAAGGCAA AGCAATAACT 120 |
| | GGAATTGTGA CTCGAGGGAT AGACCCCTGG ATGTGACTCT NCTTTTTAAA AGGAAACTAT 180 |
| | GTGGAGGACG ATGCAAAANC ATATTTATCT TAGTTTGCTC TGCTGTAGTT CTGTTATTTA 240 |
| | TACTTGGTGT TGCTTGTCAT GGACACNGGT GAACATGCCG TAACTCTGTG ACTGCATTGT 300 |
| 20 | AAGTGCAGTG GGGGTAAGCA GTCCTGTGGC GTGGCGCATT N 341 |
| | |
| | SEQ ID NO:5888 |
| | SEQUENCE LENGTH: 256 |
| 25 | SEQUENCE TYPE:nucleic acid |
| | TOPOLOGY: linear |
| | CLONE: HUNGS06994 |
| | SEQUENCE DESCRIPTION: |
| | GATCCTGGAC TGGGTACCTT ACATCAATGG CAAGTTTAAG AAGGNTAATT AATTACACAA 60 |
| 30 | ACCOTTCACA GACTGCTCTG GTGCCTGGTG GTGCTAGCTC CTCCCACCTC AGCACCTGCT 120 |
| | GCATCTGGAG CAGCCCAAGC CTCAGGATGG NCAAGNGGAA ACCCACAGCT CAGCTTCAGG 180 |
| | CTTCTTATGT TTCTGAAAAC AGCTTGGNTA TTTTAATGCA CGTTGCATTA AACCTCACTG 240 |
| | AANCATAANG GGGAAA 256 |
| 35 | SEQ ID NO:5889 |
| | SEQUENCE LENGTH: 204 |
| | SEQUENCE TYPE:nucleic acid |
| | TOPOLOGY: linear |
| 40 | CLONE: HUNGS06995 |
| | SEQUENCE DESCRIPTION: |
| | GATCTTTGTA GGACTATATG TGTCAGTAAT NATGAGCTTC AATCCTGACA TTAATAACTT 60 |
| | ACTGTNGAGC AGAGAAGAGT TGCTTGTAAA CCTTGTGCTT TTATATACTA NTTTAAAANC 120 |
| | TTAAAGTGAT AGTGAGCTAT GAAGTACCAA TCATGTATGA TATGTGGATA CAAAGCACAG 180 |
| 45 | TATTATTAAA GTGTNATGTG GAAA 204 |
| | SEQ ID NO:5890 |
| | SEQUENCE LENGTH: 173 |
| 50 | SEQUENCE TYPE: nucleic acid |
| | |

| 5 | TOPOLOGY:linear CLONE:HUMGSO6996 SEQUENCE DESCRIPTION: GATCAGCAAT AAAAANAAAC TGATATAGTG CATGCAAACC ATGGCTGTGA AAATTACACC | AGGAGCATTT | TGTGTCTTAA | GAAAAATAAT | CTTAGAACAG | |
|----|---|------------|------------|------------|------------|-----------|
| 10 | SEQ ID NO:5891 SEQUENCE LENGTH:156 SEQUENCE TYPE:nucleic TOPOLOGY:linear | acid | | | | |
| 15 | CLONE: HUNGSO6997 SEQUENCE DESCRIPTION: GATCAAATAT TGGTTGAATG AAAGATGAAT AANCATATCT AGTGTGTGTC CAAAAGCTGA | TGTTTAGGAA | ATGGATGTAT | | | |
| 20 | SEQ ID NO:5892 SEQUENCE LENGTH:100 SEQUENCE TYPE:nucleic TOPOLOGY:linear | acid | | | | |
| 25 | CLONE:HUMGS06998 SEQUENCE DESCRIPTION: GATCGCTTGA ACCTGGGAGG GCCTGGGTGA CAGAGTGACA | | | GATTGCACCN | TTGCACTCCN | 60 100 |
| 30 | SEQ ID NO:5893 SEQUENCE LENGTH:65 SEQUENCE TYPE:nucleic TOPOLOGY:linear | acid | | | | |
| 35 | CLONE:HUMGS06999 SEQUENCE DESCRIPTION: GATCACTTGA GCTCAGGAGT CCAAA | CCTAAACCAG | CCTGGGCAAC | ATAGTGATAC | CTTGTCTCTA | 60 65 |
| 40 | SEQ ID NO:5894 SEQUENCE LENGTH:94 SEQUENCE TYPE:nucleic TOPOLOGY:linear | acid | | | | |
| 45 | CLONE:HUMGS07000 SEQUENCE DESCRIPTION: GATCTTGAAT AATTCATAAT TTCTTAAAAA TAAAAAAAAT | | | ATAATTNCTG | GCTAGTTATT | 60 94 |
| 50 | SEQ ID NO:5895 | | | | | |

| 5 | SEQUENCE LENGTH:89 SEQUENCE TYPE:nucleic TOPOLOGY:linear CLONE:HUMGS07001 SEQUENCE DESCRIPTION: GATCCCTCTT TTCCAGAAAA TTGAATTAAA GCAGGATTCA | TTCTGTGGAA | TNTTTCTGTA | GGACTTTGTT | CTCCACAAGC | 60 89 |
|----------------|---|------------|------------|------------|------------|----------|
| 40 | TIGAMITAMA QUAGGATION | UITIOOMA | | | | 03 |
| 10 | SEQ ID NO:5896 SEQUENCE LENGTH:196 SEQUENCE TYPE:nucleic | acid | | | | |
| 15 | TOPOLOGY:linear CLONE:HUMGS07002 SEQUENCE DESCRIPTION: | | | | | • |
| | GATCAGCTGA AGTGTGTTTT | AGACCCAAAC | CATCTGGCCC | CTTCGTTTTG | CTCAGAGGAA | 60 |
| | GTAAATNTNC ACTTAAATGA | | | | | - |
| 20 | ACTINCCCCA TGCTGCCTCA | AAAGTNCTGT | AAGTTTCGGG | GTCAGTGTCC | CACCCTTCAC | 180 |
| | TTCCCGANNN NNGGGN | | | | | 196 |
| - 25 | SEQ ID NO:5897 SEQUENCE LENGTH:56 SEQUENCE TYPE:nucleic TOPOLOGY:linear | acid | | | | |
| | CLONE: HUMGS07003 | | | | | |
| | SEQUENCE DESCRIPTION: | | | | | |
| 30 | GATCCCAGTT TGCCTTGCCA | AATAAACTCT | GTTTATGTGA | ATTTATTAAA | CGCAAA | 56 |
| 35 | SEQ ID NO:5898 SEQUENCE LENGTH:294 SEQUENCE TYPE:nucleic TOPOLOGY:linear CLONE:HUMGS07004 | acid | | | | |
| | SEQUENCE DESCRIPTION: | | | | | |
| | GATCCCAGCT TTTTTCCCTC | TCCCACAAAA | CCAGGTAGTG | AAGTTATATT | ACCAGTTACA | 60 |
| | GCAAAATACT TTGTGTTTCA | | | | | |
| 40 | GACTTGTAGT GTGTTGGTGA | | | | | |
| | ACCACATTAC AATCAAGCCA | AAAGAATAAA | GGTTTCGCTT | TTNTNTTTGT | ATTTNATTGT | 240 |
| | TGTCTTTGTT TCTATCTNNG | | | | | 294 |
| 45 | SEQ ID NO:5899 SEQUENCE LENGTH:113 SEQUENCE TYPE:nucleic TOPOLOGY:linear | acid | | | | |
| | CLONE: HUNGS 07005 | | | | | |
| 50 | SEQUENCE DESCRIPTION: | | | | | |

| | GATCTCCCTA CTCCATTNNN CCCTTTAATT NAAGTGGCCA CATGTATATG TCTTCCCTGC TGTGTTAGGA AAATGGGGGC TGGATATCCC AAGAATCAGA GGTTATATAN AAN | 60 l 13 |
|----|---|------------|
| 5 | SEQ ID NO:5900 SEQUENCE LENGTH:171 | |
| | SEQUENCE TYPE:nucleic acid | |
| | TOPOLOGY: linear | |
| 10 | CLONE: HUMGS07006 | |
| | SEQUENCE DESCRIPTION: | |
| | GATCGCTTTT GTGACTGTCC ATCTGTCCTT GACAGTGGCT GTCATATTGA CTCCTTTGNT | |
| | GNTTTGTTGG TATTGGGGAC ATTTTCCACG GCTGAGTTNT TTTTGACTGA CATGTTTATG 1 ACATAGACGI NGTTTTCGCA TCCNTGACTT AAACTGACTT GNACNCCNTT N 1 | |
| 15 | ACAIAGACGI RGIIIICGCA ICCNIGACII AAACIGACII GRACACCAII R | 71 |
| | SEQ ID NO:5901 | |
| | SEQUENCE LENGTH: 76 | |
| | SEQUENCE TYPE:nucleic acid | |
| 20 | TOPOLOGY: linear | |
| | CLONE: HUMGS07007 | |
| | SEQUENCE DESCRIPTION: | |
| | GATCTACTGT AAAAAGAGGA TTAAGNAAAA TAAAATNAGA GCAATTATAT ATATAATTNT | 60 |
| | ATATCATACA CAGAAA | 76 |
| 25 | | |
| | SEQ ID NO:5902 | |
| | SEQUENCE LENGTH: 118 | |
| | SEQUENCE TYPE:nucleic acid TOPOLOGY:linear | |
| 30 | CLONE: HUNGS07008 | |
| | SEQUENCE DESCRIPTION: | |
| | GATCACGGGA GCAATGCTGT ACGGTTTTGT ACACTGGTGG TTTGTTTCCT AGAAAACCCA | 60 |
| | | 18 |
| 35 | | |
| | SEQ ID NO:5903 | |
| | SEQUENCE LENGTH: 185 | |
| | SEQUENCE TYPE: nucleic acid | |
| 40 | TOPOLOGY: linear | |
| 40 | CLONE: HUMGS07009 | |
| | SEQUENCE DESCRIPTION: | |
| | GATCANNCTG ANCCAATTTA CCAAGCATTA TTAAGGAGGA ATAATNCCAT ACCATGTAAA | |
| | ATACCATGAT ATGCTGATTA TAATACATTA ACAAATTTTT AAGTTGCGTT CACTAAATNC 1 | |
| 45 | TGTCCTGTTT CTTCAAAATA ATATAGCTTA AATTGCATGN TAATNGTATA TCTTACCTNT 1: | |
| | I I MUN | 85 |
| | SEQ ID NO:5904 | |
| | SEQUENCE LENGTH: 134 | |
| 50 | SPOURNCE TYPE-muclain anid | |

| 5 | TOPOLOGY:linear CLONE:HUMGS07011 SEQUENCE DESCRIPTION: GATCTACCCA ACTCTGTCAT GTTTATACAT AACTTGTACA ATTTCTNTTC TAAA | | | | | |
|--------|---|--------------------------|--------------------------|--------------------------|--------------------------|-----|
| 10 | SEQ ID NO:5905 SEQUENCE LENGTH:297 SEQUENCE TYPE:nucleic TOPOLOGY:linear | acid | | | | |
| 15 | CLONE: HUMGS07012 SEQUENCE DESCRIPTION: GATCGAATTN CNACCCCTAA CACCCAACCC GAGATGTCAG | | | | | |
| 20 | CTGCAGCCAG GTGTGTGCCA GTGTTTATTT TTNTNTCTCA TTGTNTTGGG GNGTTGCTGG | CACGGCAGCC ACCACTTTAT | TTCCCGAAAC AACGTATTTC | ATAGTATGGA TCAATTTANN | TTTTAAAAAT TTGTAATGTC | 180 |
| 25 | | | | | | |
| 30 | | | | | | |
| 35 | | | | | | |
| 40 | | | | | | |
| 45 | | | | | | |
| 50 | | | | | | |
| | | | | | | |

| 5 | SEQ ID NO:5906 SEQUENCE LENGTH:254 SEQUENCE TYPE:nucleic acid TOPOLOGY:linear CLONE:HUNGS07013 SEQUENCE DESCRIPTION: | |
|----|---|----------|
| 10 | GATCTAGAAT GGGGCTGCAA GNCGGTCCCC ATTTTGGATG GGTCACATTC AGACACCACA CTATGGTTGC ATCACCTGTC ACACCGACCT AGACAGCTGG ATGCCATTTG GNGTAGAATA 1 ACCAGACTGG TGAGTAANCT AGAAATCATA TTACGTGAAG AGTGGCAAAA GGCCTGAGAN 1 AGTTTAGTTT GGNAAACATG ACTTANAAGG GGCATCACTG CCCTCNCTAT TTNTNTNANG 2 | 20 80 |
| 15 | SEQ ID NO:5907 SEQUENCE LENGTH:120 SEQUENCE TYPE:nucleic acid TOPOLOGY:linear | |
| 20 | CLONE:HUMGS07014 SEQUENCE DESCRIPTION: GATCCATGAA GGAATCGGGA GTGGATGGAA TGCGGTAAAA CTGTCCTGGG GCCGGACCCG TNGCCCAAAG TCCGGACCNN GACCNNAAAA ACGCTTCCAT CTTAGTCACG TTAGCAGAAA 1 | |
| 25 | SEQ ID NO:5908 SEQUENCE LENGTH:93 SEQUENCE TYPE:nucleic acid TOPOLOGY:linear | |
| 30 | CLONE:HUMGS07015 SEQUENCE DESCRIPTION: GATCCCAATT TTGTAAAAAT ATCTGTAATA TGTAAGCATA GGTATTTGTA TATCTTAAGA AAAAAAGCCT AGAAATAAAG CCACAAAAAT AAA | 60 93 |
| 35 | SEQ ID NO:5909 SEQUENCE LENGTH:306 SEQUENCE TYPE:nucleic acid TOPOLOGY:linear | |
| 40 | CLONE:HUMGS07016 SEQUENCE DESCRIPTION: GATCTCAATN TGCAAACTCC TTGGNCTCCA GACCCCTGTC TGGNTGGNAC TCCTAGCAGT GTGTGGTTTC ATCAGGAAAT CCTTGCAGCA GGGGNTTAGA TGGTTCCTTC AGGAGGTGGN 1 GAGCCTCCAT AGCATTGAAG GCCAGCCTGC ATCTCGCGGT GTGTGTCCAC TTCTCCCCTC 1 | 20 |
| 45 | ACTTTCCCCT NACCCATCCN TTTAAAGTGA TTGGCTGTGA GGAGCACAGA GGNGTGGCAA 2 TTCCATCTGT TNATGGGGTC AGAAGACATA GCCGNCATGG NGATTTCACA ATTNACCNGN 3 GTAAAN 3 | 40 |
| | SEQ ID NO:5910 | |

| . 5 | SEQUENCE LENGTH:80 SEQUENCE TYPE:nucleic TOPOLOGY:linear CLONE:HUMGS07017 | acid | | | ٠. | |
|-----|--|------------|------------|------------|------------|-----------------|
| | SEQUENCE DESCRIPTION: GATCATATAG AGTAGTTAAG TAAAAGGTAA CATAATTAAA | | CAGCATTTT | TGAAATACAT | TGTAAAATAA | 60 80 |
| 10 | SEQ ID NO:5911 SEQUENCE LENGTH:110 SEQUENCE TYPE:nucleic TOPOLOGY:linear | acid | | | | |
| 15 | CLONE: HUMGS07018 SEQUENCE DESCRIPTION: GATCTTAAGC TCTGCTCTCA | GCAGATTTCA | GGTGTACCAT | TTGTAAACTG | TACTGAAGGT | 60 ⁻ |
| | GTGTCCTCAA GAAGAAAGTG | | | | | 110 |
| 20 | SEQ ID NO:5912 SEQUENCE LENGTH:159 SEQUENCE TYPE:nucleic | | | | | |
| | TOPOLOGY: linear | acia | | | | |
| 25 | CLONE: HUMGS07020 | | | | | |
| | SEQUENCE DESCRIPTION: GATCGGGAGG ACTGTGGCCA | GCAATTAACA | CCATGTAGAC | TTCCTTAGTT | CTTAAGTGGT | 60 |
| | TGAATTCGCT GNTTGTTCTG | | | | | |
| 30 | TANTATTCTT CAGATTAAAT | GAAGCGTGAG | ACACTTAAA | | | 159 |
| 30 | SEQ ID NO:5913 | | | | | |
| | SEQUENCE LENGTH: 330 | | | | | |
| | SEQUENCE TYPE:nucleic | acid | | | | |
| 35 | TOPOLOGY: linear | | | | | |
| | CLONE: HUMGS07021 | | | | | |
| | SEQUENCE DESCRIPTION: GATCTCTCCC ATGCCTTTTA | ACCAATTACA | ACTACATAAT | CCACCCATTT | CTCACCCAAT | 60 |
| | TAAATTTGAA AGGCCAGAAA | | | | | |
| 40 | ATTGTTACTT AGATAGAAGG | | | | | |
| | GTATAGATAA TATTCACTTC | | | | | |
| | TTGTATCATA NTTTTCATTG | CTCATTCCTA | TTTCCCTGNG | ATACTTATTN | CTTNCACAAT | 300 |
| | ATTTCTTCAN GTGGATATGT | NCTTTAANTN | | | | 330 |
| 45 | SPA IN NO. SALA | | | | | |
| | SEQ ID NO:5914 SEQUENCE LENGTH:299 | | | | | |
| | SEQUENCE TYPE:nucleic | acid | | | | |
| | TOPOLOGY: linear | BUIL | | | | |
| 50 | CLONE - WINCCOZO22 | | | | | |

| | SEQUENCE DESCRIPTION: | |
|----|---|----|
| | GATCATAGCC CTNNGCCTGG CGGCACAGCA GCACTTGCGT TCTCGGGGCT GTCGATTNCC | 60 |
| | TGCCACCTGG CCAGATAACC TCAAGATTTC CACCTTTTCT TTTCAGCTTG ATTGCATTTG 1 | 20 |
| 5 | ACTATATTIN ACAGCCAGTG ATTGTAGTTT CATGTTAATA TGTGGCAAAA TATTTTTGTA 1 | |
| | ATNATTINCT AATCCCTTTC TGAGTACTCT GGGGCCCTGC ATTTATNAGG CACCTACCTT 2 | |
| | CATTITGCTA ACGCTTANNC TGAATAAAAG NITTITGATI CCTTAANAAA AGGGNNNGN 2 | 99 |
| | SEQ ID NO:5915 | |
| 10 | SEQUENCE LENGTH: 85 | |
| | SEQUENCE TYPE:nucleic acid | |
| | TOPOLOGY: linear | |
| | CLONE: HUMGS07023 | |
| 15 | SEQUENCE DESCRIPTION: | |
| | GATCCTTTGT CCAGAAGAAG CCCATGGAAT ATTGAATGTA ATACATTTAG TCAATTAANT 6 | 0 |
| | TTT LLCNAGE TTGTT ENDER AND A COLOR | 15 |
| | SEQ ID NO:5916 | |
| 20 | SEQUENCE LENGTH: 189 | |
| | SEQUENCE TYPE:nucleic acid | |
| | TOPOLOGY:linear | |
| | CLONE: HUMGS07025 | |
| 25 | SEQUENCE DESCRIPTION: | |
| - | GATCCAGCTC AGGGGAGCCC TCCTCCTGAC TTTGGAGACC TCCTTCCAGA AAGACTGCTC 6 | 0 |
| | GGACTATGGA CTCTGAGCTC TTAAGTTGCA CCCGCTGTAA TACAAATNAG TTGTTTGCCT 12 | |
| | GAATTCCAAG AACTGTCTCT GTGGTCTAGG CTGTCTGAAA TTTCTGTTGA GGGTAAGAGA 18 | |
| | ATAAGGAAA 18 | |
| 30 | | |
| | SEQ ID NO:5917 | |
| | SEQUENCE LENGTH: 215 | |
| | SEQUENCE TYPE: nucleic acid | |
| 35 | TOPOLOGY: linear | |
| | CLONE: HUMGS07026 | |
| | SEQUENCE DESCRIPTION: | |
| | GATCCCTAGG GATTTNTCAT CTTAAGACTC AAAAGGCTTA ATACCAGGAA CCACCTTGGC 60 | |
| | AAGATATTTA CCCACCGGCC ATCTCTGTTT ACTCATGAAT GTTAAATGTT AAAACGCAGC 120 | |
| 40 | GCTCTAACCC TGCNTNNNAT TTACTTGCAA ATGTCTGTAA TCTGTAATTG TNATGCCTCT 180 |) |
| | GATGGAATAA NTTATCTTTT TCAGTCTCCT CTAAA 21: | j |
| | SEQ ID NO:5918 | |
| 45 | SEQUENCE LENGTH: 100 | |
| - | SEQUENCE TYPE:nucleic acid | |
| | TOPOLOGY: linear | |
| | CLONE: HUNGS07027 | |
| | SEQUENCE DESCRIPTION: | |
| 50 | GATCGGATTG ATTAAAAAAC AAATNCTCTG GAATTTTTNC GTTCATGCTT TTCCGTATTC 60 |) |

| | TTTATGGCTT TTAAATAAAT | ATACAATGGT | TAATAGTAAA | | | 100 |
|-----|--|------------|------------|------------|------------|-----|
| . 5 | SEQ ID NO:5919 SEQUENCE LENGTH:163 SEQUENCE TYPE:nucleic TOPOLOGY:linear | acid | | | | |
| 10 | CLONE:HUMGS07028 SEQUENCE DESCRIPTION: GATCAGGGGT CCGCCTGTCC CCCCACCCCG CCAGCCGCGA GACTCCATCT GCCCCGTCAA | TACGGCGCAG | TTCCTATATT | CATGTTATTT | | |
| 15 | SEQ ID NO:5920 SEQUENCE LENGTH:132 SEQUENCE TYPE:nucleic TOPOLOGY:linear CLONE:HUMGS07029 | acid | | | | |
| 20 | SEQUENCE DESCRIPTION: GATCACTGCT GCTAGCTGAC AGTTTCATTG ACTAGTAGAA ATTTTGCTCA AA | | | | | |
| 25 | SEQ ID NO:5921 SEQUENCE LENGTH:249 SEQUENCE TYPE:nucleic | acid | | | | |
| 30 | TOPOLOGY:linear CLONE:HUMGSO7030 SEQUENCE DESCRIPTION: GATCCTAAGG AAGGAAAAAG | AAAGTGTTAA | AAATTAATAA | AGGTTTTTT | GAATCCCGTG | 60 |
| 35 | TCCTTCAAGT GCTTTCTAAC GCGTAACAGC TTTGAAAGTG TGGAAACATA TTACATGNGN CAGTAGAAA | TATTTAAAAN | TTAANTCTAT | ATGCCTTTAA | NTCAGTGAAT | 180 |
| 40 | SEQ ID NO:5922 SEQUENCE LENGTH:191 SEQUENCE TYPE:nucleic TOPOLOGY:linear | acid | | | | |
| 45 | CLONE:HUMGS07031 SEQUENCE DESCRIPTION: GATCTGCAAG TAGCCTAAAA CATAACTNNT TTTATATATT AACTACAAAA AAAAANTNTA | GCCACTAATT | TTGACTGGAT | TTAATAGCAC | TTTATTGTAC | 120 |
| 50 | GTGCTTTNCA N | | | | | 191 |

| 5 | SEQ ID NO:5923 SEQUENCE LENGTH:236 SEQUENCE TYPE:nucleic acid TOPOLOGY:linear CLONE:HUMGS07032 SEQUENCE DESCRIPTION: | |
|----|--|-----------|
| 10 | GATCTTATTT CATGAAGGTT GTATAAATGA AATCATTCAG TAATGTATCT TTTTAAGACA GGTTTTTTTT TTTCNCTCAG CACAATTCC TTGAGGTTCA TCCAGGTTGT TACCCATAAT ACCAGTTTGT NAGTCTTTAT TGCNGTAGTC TATAGCATGC TTATATCACA GTCTGNCCAA | 120 |
| 15 | SEQ ID NO:5924 SEQUENCE LENGTH:101 SEQUENCE TYPE:nucleic acid TOPOLOGY:linear | |
| 20 | CLONE:HUMGS07033 SEQUENCE DESCRIPTION: GATCTNTTTC ATAGTGTTCA AANCTGTATT ATTATATGTA GAGGGAAATA ATTTTCTCAA CACTAATCGT TAATAACTAT TGTATTAAAT NGTCATNANG N | 60 101 |
| 25 | SEQ ID NO:5925 SEQUENCE LENGTH:193 SEQUENCE TYPE:nucleic acid TOPOLOGY:linear | |
| 30 | CLONE: HUMGS07034 SEQUENCE DESCRIPTION: GATCTGCAGT TTCCCCTTTT NTCCCCTCTG AAGAGTGGTT CTTATGTGCA ATCTGCAGTA ACCTTGAACT CCAGAGCTGC ACTATAGAGG AGAATGCATG CCACTATGAC AGCAGTATGC 1 CAAGCTTTGT NTTCATCTCC TAATAAACGT TAAGACCTTT GGTGTAATAA ANGCAGCAGC 1 ATTCACCAAC AAA | 20 |
| 35 | Total and the state of the stat | . 33 |
| 40 | SEQ ID NO:5926 SEQUENCE LENGTH:251 SEQUENCE TYPE:nucleic acid TOPOLOGY:linear CLONE:HUMGS07035 | |
| | SEQUENCE DESCRIPTION: GATCTGGGGT AGGGGGCACC CTACAGTGGG ACCCNTCCCN CATTATTCTT TCTNTCCAGC | 60 |
| 45 | CCCTCCCTCC CACTGGAGCA GCTCCAGAGN CATTCCTCAC CCCCGTNACC TCTCCCAGCC 1 AGGGCTGAGA GGATTCGAGG TGGCTGGGAG GGTTTCCAGG CCCCCTGCCC CTTNCCCACA 1 AACTGGGTGN TAGGGCGGAC TTACCTGGCC CAGCCCTGCC TCCNTNAGCC AACCCAGNCC 2 NTNGGGCTGT N 2 | 80 |
| | SEQ ID NO:5927 | |
| 50 | SEQUENCE LENGTH: 132 | |

| 5 | SEQUENCE TYPE:nucleic acid TOPOLOGY:linear CLONE:HUMGS07036 SEQUENCE DESCRIPTION: GATCTCGATA TTTCAAATGG GCTTTNNATG CACTGTTGCC AAGAAAGGCT TTTCCTGATT 60 TTTTNACAAN TNAATTTTTG CACACTTTCA TTGGTGTCTT TCGGCAACTT ACATTGAAAN 120 |
|----|--|
| | TGAGCTATTG TN 132 |
| 10 | SEQ ID NO:5928 |
| | SEQUENCE LENGTH: 90 |
| | SEQUENCE TYPE:nucleic acid TOPOLOGY:linear |
| 15 | CLONE: HUNGS07037 |
| 75 | SEQUENCE DESCRIPTION: |
| | GATCCCTGGG TTGCCCTCTC CCAACCTCCT TCTTACGTGG TTTTACGTGG |
| • | TTGAGAAACA ATAAACTAGG TAGAACTAAA 90 |
| 20 | 30 |
| 20 | SEQ ID NO:5929 |
| | SEQUENCE LENGTH: 119 |
| | SEQUENCE TYPE:nucleic acid |
| | TOPOLOGY: linear CLONE: HUMGS07038 |
| 25 | SEQUENCE DESCRIPTION: |
| | GATCTCAAAA CTCATTTCTT CTACCATATA TWATCCTTTT VTCCTTTT VTCCTTTT |
| | CCTACTTATG TGTTTAAATN CTATTTNGTN ATGTCAATCT CTCTGATGCC ACCTATTTN 119 |
| 30 | • |
| 00 | SEQ ID NO:5930 |
| | SEQUENCE LENGTH: 252 SEQUENCE TYPE: nucleic acid |
| | TOPOLOGY: linear |
| | CLONE: HUMGS07039 |
| 35 | SEQUENCE DESCRIPTION: |
| | GATCGGGGCC AGAGGCAGAA CCCTGGTGAG GAAGCTCCAG TCCTGCTCTC TACCCAGCCC 60 |
| | ATCTTGCCTC CATGGTGCCT CTGGAGGCCT CTGGGCCTCC TCTAACAGGG GCTGGTGGGC 120 |
| | ACCAAGAGNC AATGGAGTAG ACCCCTGGNT GGTAAGGGNC AAGTNCCACC GGTTGCTTCT 180 |
| 40 | GGGAAGGGGT TTCTAACACT AGTTTGTGTG CTGTGGTTCC TGGGGTGCCC TCCACTGCCC 240 |
| | TCTNTTCAGG AN 252 |
| | SEQ ID NO:5931 |
| | SEQUENCE LENGTH: 76 |
| 45 | SEQUENCE TYPE: nucleic acid |
| | TOPOLOGY: linear |
| | CLONE: HUMGS07040 |
| | SEQUENCE DESCRIPTION: |
| 50 | GATCCCACTG CAGTGGTGCC TACATTTATC ATCATGGCTC CTCTTGAATA AAATCTACCT 60 |

| | TACCATCTTC AACAAA | | | | | 76 |
|----|--|------------|-------------|---------------------|------------|-----|
| | SEQ ID NO:5932 | • | | | | |
| 5 | SEQUENCE LENGTH: 103 | | | | | |
| | SEQUENCE TYPE:nucleic | acid | | • | | |
| | TOPOLOGY:linear | | | | | |
| | CLONE: HUMGS07041 | | | | | |
| 10 | SEQUENCE DESCRIPTION: | | | • | | |
| | GATCAGCACA GTAATGCCCA | | | | CATTCAAAAG | 60 |
| | AATCTCTCTA AATCACTGAT | TAANTCATTT | GACTGAAAAC | AAA | | 103 |
| | SEQ ID NO:5933 | | | | | |
| 15 | SEQUENCE LENGTH: 231 | | | | | |
| | SEQUENCE TYPE: nucleic | acid | | | | |
| | TOPOLOGY: linear | | | | | |
| | CLONE: HUMGS07043 | | • | | • | |
| 20 | SEQUENCE DESCRIPTION: | | | | | |
| 20 | GATCTACCCG NCTNGGCCTC | | | | | |
| | CACCAGNATC CTTTGGTATA | | | | | |
| | CCGCATTGTC CTAGTCCCAG | | | | | 180 |
| | TNATAAACCT GGTTCATGNC | CAACANATTT | NTGCTAAATA | GGGAGGNGGG | N | 231 |
| 25 | SEQ ID NO:5934 | | | | | |
| | SEQUENCE LENGTH: 279 | | | • | | |
| | SEQUENCE TYPE: nucleic | :4 | | | | |
| | TOPOLOGY: linear | acid | | | | |
| 30 | CLONE: HUMGS07044 | | | | | |
| | SEQUENCE DESCRIPTION: | | | | | |
| | GATCTGAGCC CAGCGTACAG | AGAAGGCTCT | GTGCAGACAC | TGCTCACACC | TCCACCTCCC | 60 |
| | AGCTCACCTG CCCCACAGGT | | | | | |
| 05 | TCCTCAGCCT GCNTTCCAGT | | | | | |
| 35 | ACCAGCCAAC CNTTTNTGAT | | | | | |
| | GTCTGCCACC TTTAACCACA | | | | | 279 |
| | OPO ID NO SOOS | | | | | |
| 40 | SEQ ID NO:5935 | | | | | |
| 40 | SEQUENCE LENGTH: 235 | | | | | |
| | SEQUENCE TYPE:nucleic | acid | | | | |
| | TOPOLOGY: linear | | | | | |
| | CLONE: HUMGS07046 | | | | | |
| 45 | SEQUENCE DESCRIPTION: | ***** | | 011111 8 000 | | |
| | GATCTAGGAG AAGGGNCTCA CGACATCACA GTTTTCCNGT | | | | | 60 |
| | ATAAACTGGA ATCCTTTCAC | | | | | |
| | GCTGTNCCTT ATCCTAATGA | | | | | |
| 50 | | Dominocorr | HOOOG LAAAL | · · | VIOVI - | 235 |

| | SEQ ID NO:5936 | • | | | | |
|----|------------------------|------------|------------|------------|------------|-----|
| | SEQUENCE LENGTH: 119 | | | | | |
| | SEQUENCE TYPE:nucleic | acid | | | | • |
| 5 | TOPOLOGY: linear | dord | | | | |
| | CLONE: HUMGS07047 | | | • | | |
| | SEQUENCE DESCRIPTION: | | | | | |
| | GATCAGTTAC ATTCATCAGT | TGGTGAGTTT | TGAAGAATAA | CTACATTTNA | TTTCAAACTA | 60 |
| | ACAAATGTAT ACGGTTTTAG | | | | | |
| 10 | ACAAAIGIAI ACGGIIIIAG | LICAGIGIIG | AAUAAIIIMA | AIRVANIAII | Mullinoth | 113 |
| | SEQ ID NO:5937 | | | | | |
| | SEQUENCE LENGTH:213 | | | | | |
| | SEQUENCE TYPE:nucleic | acid | | | | |
| 15 | TOPOLOGY: linear | 40.4 | | | | |
| | CLONE: HUMGS07048 | | | | | |
| | SEQUENCE DESCRIPTION: | | | | | |
| | GATCCCTTTT NAAAAATATA | TGTATGCATG | TNTGCATTAA | AGAGTCTGAA | AGGATACTTG | 60 |
| | CCAAAGTGTA AAAGCATTTA | | | | | 120 |
| 20 | TGCATATCTG TAACTNCTNA | | | | | |
| | GGAATAANCA NTGATGTTCA | | | · | | 213 |
| | | | | | | |
| | SEQ ID NO:5938 | | | | | |
| 25 | SEQUENCE LENGTH: 147 | | | | | |
| | SEQUENCE TYPE: nucleic | acid | | | | |
| | TOPOLOGY: linear | | | | | |
| | CLONE: HUMGS07049 | | | | | |
| | SEQUENCE DESCRIPTION: | | | | | |
| 30 | GATCCAGACC ATCCTGGCTA | ACATGATGAA | ACCCTGTTGC | NTGTNGTACC | AACTACTTGG | 60 |
| | GAGGCTGAGG CAGGAGAATG | GCATGAACTC | GGGAGGCGGA | NTTGCAGTGA | GCCTCCAGCC | 120 |
| | TGGGCAACAG AGTGAGACTC | TCTCAAA | | | | 147 |
| | | | | | | |
| 35 | SEQ ID NO:5939 | | | | | |
| | SEQUENCE LENGTH: 299 | | | | | |
| | SEQUENCE TYPE: nucleic | acid | | | | |
| | TOPOLOGY: linear | | | | | |
| 40 | CLONE: HUNGS07050 | | | | | |
| 70 | SEQUENCE DESCRIPTION: | | | | | •• |
| | GATCCTGGGA GCCTCTGTTC | | | | | |
| | ANGGNAGGAG CCTNGGGTGC | | | | | |
| | GTCCCCGTCA GAAAAGTGG | | | | | |
| 45 | GTGACCACAA GCTTATGTGN | | | | | |
| | GGAAAGGANC TTCTCAGTTT | TTATTGGGGG | TGTNTAAATT | TNCTTNCATA | TNGTTCATN | 299 |
| | SEQ ID NO:5940 | | | | | |
| | SEQUENCE LENGTH: 186 | | | | | |
| 50 | SECHENCE TYPE nucleic | acid | • | | | |

| 5 | TOPOLOGY:linear CLONE:HUMGSO7053 SEQUENCE DESCRIPTION: GATCCTTCAG GCAGTAAGGG CCAGCTGGAG ATGGGTGTGC CAGGGGCAGC CGTGGCCTAG TGTAAA | CCCAGAAGTA | AGCTTTGCAT | CTCTTACAAG | AGGGGAGCTA | 120 |
|----|---|------------|------------|--------------|------------|-----------|
| 10 | SEQ ID NO:5941 SEQUENCE LENGTH:195 SEQUENCE TYPE:nucleic TOPOLOGY:linear CLONE:HUMGS07054 | acid | | | | |
| 15 | SEQUENCE DESCRIPTION: GATCCGGTNA TGGTCTGGGC TCAGAAGAGG CCCAGCGTCC ATCCCCCTAT GGGCTCCCAG | ACCTCTCTCC | CAGGGCCAGA | CACCTCTTCC | TGGCTCCCCC | |
| 20 | TTTGCACCTG TCAAA SEQ ID NO:5942 SEQUENCE LENGTH:116 | :3 | | | | 195 |
| 25 | SEQUENCE TYPE:nucleic TOPOLOGY:linear CLONE:HUMGS07055 SEQUENCE DESCRIPTION: GATCATTCAC TGTTTTNGTT | | TCAGTACTAT | GAAGCTTCTG | TGGTTTGTAT | 60 |
| 30 | GATGTTTTAA CTTTCACTTT SEQ ID NO:5943 SEQUENCE LENGTH:116 | | | | | 116 |
| 35 | SEQUENCE TYPE:nucleic TOPOLOGY:linear CLONE:HUMGS07056 SEQUENCE DESCRIPTION: | | | Waaga a Aaga | 0000001001 | 60 |
| 40 | GATCCGNAAG CNAGANACCC CCTTCTAACC CCTGTGGCCC | | | | | 60 116 |
| 45 | SEQ ID NO:5944 SEQUENCE LENGTH:179 SEQUENCE TYPE:nucleic TOPOLOGY:linear CLONE:HUMGS07057 SEQUENCE DESCRIPTION: | acid | | | | |
| 50 | GATCATAATC ACTGCCTTAC | | | | | |

| | TTCCAGACCC ACTCCCCACC CTTNTCCCCT TCCTTTGCCC GGGNACGNCG AACTCTCTN 17 | 9 |
|----|---|---|
| | SEQ ID NO:5945 | |
| 5 | SEQUENCE LENGTH: 166 | |
| | SEQUENCE TYPE: nucleic acid | |
| | TOPOLOGY: linear | |
| | CLONE: HUMGS07058 | |
| 10 | SEQUENCE DESCRIPTION: | |
| | GATCTAGATT AGCAATATAA AGAAGCATAG TGGTACTCTG TTTCACACTT TCAGTAGATT 6 | |
| | TATTAGAAGT CAAATNCTAT TCAACAGACA CTTATTAGGA TATACAACTA ATTTANGAAT 12 | 0 |
| | AAAATTCCAG GCACAATATA TTTNNNTNAA NTGGTATTTG TNAGTN 160 | 6 |
| 15 | SEQ ID NO:5946 | |
| | SEQUENCE LENGTH: 230 | |
| | SEQUENCE TYPE: nucleic acid | |
| | TOPOLOGY: linear | |
| 20 | CLONE: HUMGS07059 | |
| | SEQUENCE DESCRIPTION: | _ |
| | GATCTTTTGT GACTACAACT TCTNTTGTAA ATAATGATAT ATGGTATTNC CATCGTCAGT 60 | - |
| | TACCGAGTAT AGCCACTGGG TATCACTACT TTGTGTTAAA GTGCCTTCGC ACTTTAAGTA 120 CATTACTTAA ATGTTGCTTT TAGCTTTGAT AAATTGAAAA TATTTNAATG GGNNGGGGNN 180 | |
| 25 | TTGAAATTGA AAACACTGTA AAATAGGTTG GNGTGTCAGC NNTATTANGN 230 | |
| 25 | Transitur muchetur variantin analatevae mitutivina 590 | , |
| | SEQ ID NO:5947 | |
| | SEQUENCE LENGTH: 177 | |
| 30 | SEQUENCE TYPE: nucleic acid | |
| | TOPOLOGY: linear | |
| | CLONE: HUNGS07060 | |
| | SEQUENCE DESCRIPTION: | |
| | GATCCGCCTA CCTTGGCCTC CCAAAGTGCT GGGATTACAG GCATGAGCCA CCATGCCCAG 60 | |
| 35 | CCAGNGATTT AATTNITAAT AACTAATTIN AGGGCACAAT ITGACCICCA ITGACAGCCI 120 GTTTGTATTA CITAATGIGA ATAINIGIGI GTITTGCCAN GGGNTATIGA NGTATIN 177 | |
| | GTTTGTATTA CTTAATGTGA ATATNTGTGT GTTTTGCCAN GGGNTATTGA NGTATTN 177 | |
| | SEQ ID NO:5948 | |
| | SEQUENCE LENGTH: 96 | |
| 40 | SEQUENCE TYPE: nucleic acid | |
| | TOPOLOGY: linear | |
| | CLONE: HUNGS07061 | |
| | SEQUENCE DESCRIPTION: | |
| 45 | GATCTCCAGG CCCAGCCTGG CCCCAAATAT TCTTTCCTTT CATCCTCAGC AAGTGCTGAG 60 | |
| | TCTGTGAATA AAGCCACATA ACCAGCGGGC ACTAAA 96 | i |
| | SEQ ID NO:5949 | |
| | SEQUENCE LENGTH: 191 | |
| 50 | SPONENCE TYPE: puglaic acid | |

| 5 | TOPOLOGY:linear CLONE:HUMGSO7062 SEQUENCE DESCRIPTION: GATCATAAAG CCACCGGCCA GATGGGCACC GTGGTGGAGG GGTTTTAAAC TTGTGTTGAC GTACCATGAA A | AAGTCACCCA | GCTGTTTCTC | AGTCCCAGAG | GCCGGTGGCT | |
|-----------|---|--------------------------|------------|------------|------------|-----------|
| 15 | SEQ ID NO:5950 SEQUENCE LENGTH:109 SEQUENCE TYPE:nucleic TOPOLOGY:linear | acid | | | | |
| | CLONE:HUHGS07063 SEQUENCE DESCRIPTION: GATCCAACTG GGAGAACCTC NACTCTTGTA CAGCTTAATG | | | | TCTCTTTTNT | 60 109 |
| 20 | SEQ ID NO:5951 SEQUENCE LENGTH:216 SEQUENCE TYPE:nucleic TOPOLOGY:linear | acid | | | | |
| 25 | CLONE:HUMGS07065 SEQUENCE DESCRIPTION: GATCGACCTG AAACTCCTCA TGTCGACTGG GACTGGGACC | CCAAAGTNCT ATCTGTTCAC | TGAGGTGTCC | TTAGAGGTCC | TCACTGAGTG | 120 |
| 30 | GGACCCACTG CAGACGGAGA TCACCCATGC TCTAGACATN SEQ ID NO:5952 | | | GCCATNCACA | CCTNAGCCCG | 216 |
| 35 | SEQUENCE LENGTH: 192 SEQUENCE TYPE: nucleic TOPOLOGY: linear CLONE: HUMGS 07066 SEQUENCE DESCRIPTION: | acid | | | | |
| 40 | GATCCACCAA AATAAATGAT CTACCACCTT TTTTTCCTTT AAAATGACCT GCTTGAAACT CTTTTTGTGA AA | TTAATTAATA | CTAAATATTG | TGATTTCTTA | TTTGAGGTTC | 120 |
| 45 | SEQ ID NO:5953 SEQUENCE LENGTH:298 SEQUENCE TYPE:nucleic TOPOLOGY:linear CLONE:HUNGS07067 | acid | | | · | |
| 50 | SEQUENCE DESCRIPTION: | | | | | |

| | GATCACACCC TGGAACAATT | GGNGGATTGC | TTGCTGCCCT | GCATCTTAAG | GCGTATTCTA | 60 |
|----------------|--|------------|-------------|------------|------------------------|-----|
| | GCAGCAAAGC TTGTNATGCA | CTGACTTGGG | GCAAGTAAAA | CTGATGCTGA | GGACAAAGGG | 120 |
| | AGANGATGTT CCTCGCCCAG | GGAAATNAAA | ACTITNCTNA | TTCACCTTGC | TTGTGCTTAA | 180 |
| 5 | NCACTTATGT NCATCTAGTG | TAGAATACAT | GGCTACTTGT | TTGTAATTNT | NTNATTGGTG | 240 |
| | GAATTAAAGT AATTTTCCCT | TATCTTTGAN | CTTTTATTTA | GAGAACTNAA | ANAAAGCN | 298 |
| | SEQ ID NO:5954 | | | • . | | |
| 10 | SEQUENCE LENGTH: 250 | | | | | |
| | SEQUENCE TYPE:nucleic | acid | | | | • |
| | TOPOLOGY: linear | | | • | | |
| | CLONE: HUMGS07068 | | | | | |
| | SEQUENCE DESCRIPTION: | | | | | |
| 15 | GATCTNCAGG GGNATGTTTT | | | | | 60 |
| | AGCATAGATT GTATAAANTA | | | • • | | |
| | CTTTCAGAAG CTCTTCTAAA | | | | | |
| | TTCCCTGTGT ATTCTAGTGA | ATGAANTCTC | AAGANTCAGT | AGANCNAATG | ACNTTGGNAT | |
| 20 | GTAATGNTNN | | | | | 250 |
| | | | | | | |
| | SEQ ID NO:5955 | | | | | |
| | SEQUENCE LENGTH: 135 | | | | | |
| | SEQUENCE TYPE:nucleic | acid | | | | |
| 25 | TOPOLOGY: linear | | | | | |
| | CLONE: HUMGS07069 | | | | | |
| | SEQUENCE DESCRIPTION: | 0001000011 | 00000000000 | 100mm00101 | 011001 0 00 | 60 |
| | GATCCGTNAA TNCNCGGAAT | | | | | |
| 30 | CCACATCCTG TGTCAGAAAC TGGTCTGTNT GTGTN | CCIGGICICC | GIGGCACIIG | IAACICACCG | INCIGICING | 135 |
| | Iddicidini didin | | | | | 199 |
| | SEQ ID NO:5956 | | | | | |
| | SEQUENCE LENGTH: 193 | | | | | |
| 05 | SEQUENCE TYPE:nucleic | acid | | | | |
| 35 | TOPOLOGY: linear | 4011 | | | | |
| | CLONE: HUMGS07071 | | | | | |
| | SEQUENCE DESCRIPTION: | | | | | |
| | GATCTAGAAT TGACATTTTG | CCTTCTTGTT | TCCAGGTGTT | TCTATTTTTT | CTATTCTTTC | 60 |
| 40 | AGAGAAATCT CATATTTCGG | TGTATTTATT | GCTGTTACTA | CTATATTTAC | TGCTGAAAAC | 120 |
| | TGTAACAACC TGAAGATTTG | TAAAATGTTA | AACATAGTTC | ATAAAAATA | ATAAAATAA | 180 |
| | TCTAAAATGT AAA | | | | | 193 |
| 45 | SEQ ID NO:5957 | | | | | |
| · · | SEQUENCE LENGTH: 273 | | | | | |
| | SEQUENCE TYPE:nucleic | acid | | | | |
| | TOPOLOGY: linear | | | | | |
| | CLONE: HUMGS07072 | | | | | |
| 50 | SEQUENCE DESCRIPTION: | | | | | |

| | GATCCTCCAA AGGCCTGCCC | CATGNATTTA | ACAGTAATAC | AGGAAGCATG | GCAGGCACCA | 60 |
|----|------------------------|------------|------------|-------------|------------|-----|
| | TGCAAACCAA GGATGGATGG | TGCAGTCCCT | GTGTCAGTGG | GCGGTGGTTT | CCTGCTGGCC | 120 |
| | TGGAATCACT CATCACCTGA | TTGATTGGCT | CTGTGGTCCT | GGGCAGGTGC | CTCATAGGTG | 180 |
| 5 | TGTGGNTATG ATGACGTTTC | NNTAAAATGT | ATGTNTTTAA | CANATACTNA | ATNGTATTAN | 240 |
| | GGTCATGTAC CAATGGNTTT | | | • | • | 273 |
| | | | | | | |
| | SEQ ID NO:5958 | | | • | | |
| | SEQUENCE LENGTH: 108 | | · | | | |
| 10 | SEQUENCE TYPE:nucleic | :4 | | • | | |
| | - • • | aciu | | | | • |
| | TOPOLOGY: linear | | | | | |
| | CLONE: HUMGS07074 | | | | | |
| 15 | SEQUENCE DESCRIPTION: | | | | | |
| 15 | GATCAGAAAG NATTAAATAT | CACTACCACA | TGAGTTAAAA | CAAAAAATGG | AATAAAAANC | 60 |
| | AAAAGTGGTG TCTATGTTAT | CAGTGGNTTA | CTTGATAGGN | CATTTNAN | | 108 |
| | | | | * | | |
| | SEQ ID NO:5959 | | | | | |
| 20 | SEQUENCE LENGTH: 256 | | | | | |
| 20 | SEQUENCE TYPE:nucleic | acid | | | | |
| | TOPOLOGY: linear | | | | • | |
| | CLONE: HUMGS07075 | | | | | |
| | SEQUENCE DESCRIPTION: | | | | | |
| 25 | GATCTTCACA AGGNTTGTAT | TGGCCACATC | CACGTCCTCC | GAGCCTACAT | CAAGACCCAA | 60 |
| | GTGAACAAAG AGCTGGAGCA | | | | | |
| | | | | | | |
| | GAAAGGCTCA GCAGCAAGTT | | | | | |
| | GGCAAGAGCA AGACCAAGTG | ACCCCCAACA | TTTTCCCCAA | TAAAGGTCTG | GGCCAGANTG | |
| 30 | GCACCATCCC TGCAAA | | | | | 256 |
| | | | | | | |
| | SEQ ID NO:5960 | | | | | |
| | SEQUENCE LENGTH: 262 | | | | | |
| | SEQUENCE TYPE:nucleic | acid ' | • | | | |
| 35 | TOPOLOGY: linear | | • | | | • |
| | CLONE: HUMGS07076 | | | | | |
| | SEQUENCE DESCRIPTION: | | | | | |
| | GATCTAGTCA TCTGGTTAAG | GATTTTAAGC | AGATGCAACT | ATAAACCCAA | GAAACTGTAT | 60 |
| | TACTATTACT GTTGGTCATA | CTAAACCTGT | CTATTTCCTG | AAGTATATGA | CCCACAAGGA | 120 |
| 40 | TGTGGAATAA CTAGGAGAAA | | | | | |
| | ATATGATAGG GATGAACATG | | | | · · | |
| | ANTCTGCAAA ANAGNNNNNN | | dinonunchu | OTTAMITADI. | donoinidio | 262 |
| | ANICIUCAAA ANAUNANNAN | MN | | | | 202 |
| | CEO ID NO. FOCA | | | | | |
| 45 | SEQ ID NO:5961 | | | | | |
| | SEQUENCE LENGTH: 295 | | | | | |
| | SEQUENCE TYPE: nucleic | acid | | • | | |
| | TOPOLOGY: linear | | | | | |
| 50 | CLONE: HUMGS07079 | | | | | |
| 50 | SEQUENCE DESCRIPTION: | | | | | |

| | GATCTCAGCT CACTGCAACT | NNTGCCACCT | GGGCTTAAGC | CATCCTCCCA | CTTCAGCATC | 60 |
|-----|------------------------|-------------------|--|------------|----------------|-----|
| | CCAAATAGCT GGGACTGCAG | GCACACACCA | CCACACCCAG | CTAATTTTNG | TATTTTTTGT | 120 |
| | AGAGACGGGA TTTCACCATG | TTGCCCAGGC | TGGTGTTGAA | CTCATGAGCT | CAAGTAATCT | 180 |
| 5 | GNTGGCCTTG GCCTCCCAAA | GTGCTGAGAT | TATAGGCGTG | AGCACTGCAT | CCAGCTCACT | 240 |
| | CCTNATTTCT TTCTAGCCCC | AAAGGGGTTG | AGTCAGCAAA | TCCTNCAGCC | TTTTN | 295 |
| | SEQ ID NO:5962 | | • | | | |
| 10 | SEQUENCE LENGTH: 272 | | | | | |
| | SEQUENCE TYPE:nucleic | acid | | | | |
| | TOPOLOGY: linear | | | | | |
| | CLONE: HUMGS07080 | | | | | |
| | SEQUENCE DESCRIPTION: | | | | | |
| 15 | GATCCTGGAA TGTTTGCTGG | | | | | 60 |
| | ATTTAGAGTT GGAAGTTGAA | | | | | |
| | TTGAAATCAA ACGTCTTGAT | | | | | |
| | GGGGTGGGGG CAGGGACTCT | | | TTATNTGGTG | TGTGTGGNGT | |
| 20 | ATAAANGGCT ACACCCTTAT | TNTAAAAANN | NN | | | 272 |
| | SEQ ID NO:5963 | | | | | |
| | SEQUENCE LENGTH: 91 | | | | | |
| | SEQUENCE TYPE: nucleic | acid | | | | |
| 25 | TOPOLOGY: linear | | | | | |
| | CLONE: HUMGS07081 | | | | | |
| | SEQUENCE DESCRIPTION: | | | | | |
| | GATCTGTCGT CTTCAAAAAA | ATGGCAAAGT | GGGAAATGTG | GGAGGGGAAA | ACACTTCAGA | 60 |
| | ATAAAAGAGA TTTAAGAGAT | | | | | 91 |
| 30 | | | | | | |
| | SEQ ID NO:5964 | | | | | |
| | SEQUENCE LENGTH: 194 | | | | | |
| | SEQUENCE TYPE: nucleic | acid | | | | |
| 35 | TOPOLOGY: linear | | | | | |
| | CLONE: HUMGS07082 | | | | | |
| | SEQUENCE DESCRIPTION: | | | | | |
| | GATCAGGTTG TCTGCATTTG | TTGGTGTAAG | TGAACATCAT | CACAGTTATC | CTGAGTTGAG | 60 |
| | TTTAAGCCAA ATANATGCAT | AGAAAAGGGT | CTTCCTATTA | ATGGAAGANG | GTAATTTTTA | 120 |
| 40 | GGATGTGTAT TATTTCAGTT | TTGTATGTTT | AACTNTNATT | NAATAAAGTG | TTTTTAAAAT | 180 |
| | CNCAAAAATN ANNN | | | | • • | 194 |
| w . | and the voltage | | | | | |
| | SEQ ID NO:5965 | | | | | |
| 45 | SEQUENCE LENGTH: 266 | | | | | |
| | SEQUENCE TYPE:nucleic | acid | | | | |
| | TOPOLOGY: linear | | | | | |
| | CLONE: HUMGS07083 | | | | | |
| 50 | SEQUENCE DESCRIPTION: | ለጥቦ ጥጥጥጥ ነ | TATA 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 | *** | ******* | 60 |
| 00 | URILIULLIU ARUAAATAT | CIGILLICIA | | AAAAIIIII | AAALULAAA | υU |

| 5 | GTTAGATTTA AAATTGTAAA ACATTTTATG AAATTATGTG GTCCAAAACC TCAATAAANT | GATTCATATT TTGAGGAAAA | ACTGTTACAA | GATAGANTTG | AATGCAAAAA NTANAANCAT | 180 240 |
|----|--|-------------------------------------|---------------|-------------------------------|--------------------------|------------|
| 3 | TTTATAATTG TGCANGTNAN | NNNNAN | | | | 266 |
| 10 | SEQ ID NO:5966 SEQUENCE LENGTH:256 SEQUENCE TYPE:nucleic TOPOLOGY:linear | acid | | | | |
| | CLONE: HUMGS07084 SEQUENCE DESCRIPTION: GATCCTTTTN AGTTTTTCCA | GGTGAGAAAT | CCTATCAATT | ATGTNATAAT | NATATGTTTT | 60 |
| 15 | CCTNTTCAAA ATTTATAACA | | | | | |
| | CTAAATAATA AAGGTGGCAG | | | | - | |
| | TTGCTACAGC AATTCCAAAT | TGTGTTTTGT | GAAAAANAAA | TATTCTNCTT | NGGAGACANG | 240 |
| | GNNTNTACAT TTGCAN | | | | | 256 |
| 20 | | | | | | |
| 20 | SEQ ID NO:5967 | | | | | |
| | SEQUENCE LENGTH: 119 | | | | | |
| | SEQUENCE TYPE:nucleic | acid | | | | |
| | TOPOLOGY: linear CLONE: HUMGS07085 | | | | | |
| 25 | SEQUENCE DESCRIPTION: | • | | | | |
| | GATCAGAACA GGCTTAAATT | GATGCTATAG | AACCAATTAC | TCTGTATTAT | CTTTGCAACT | 60 |
| | CTTTTGTAAG TCTAAAATTG | | | | | |
| | | | | | | |
| 30 | SEQ ID NO:5968 | | | • | | |
| | SEQUENCE LENGTH: 146 | | | | | |
| | SEQUENCE TYPE:nucleic | acid | | • | | |
| | TOPOLOGY: linear | | | | | |
| 35 | CLONE: HUMGS07086 | | | | | |
| | SEQUENCE DESCRIPTION: GATCTTCTAA TCGACAATCT | ACATCATAGE | CACCACCAGE | A A T C A C C T G T | AAGAGATTAA | 60 |
| | AAAAGAAAAA TCACTGTGAA | | | | | |
| | AAAATGGCAA TAAGGTGATG | | 1211111111111 | | | 146 |
| 40 | | | | | | |
| | SEQ ID NO:5969 | | | | | |
| | SEQUENCE LENGTH: 203 | | | · | | |
| | SEQUENCE TYPE:nucleic | acid . | | | | |
| 45 | TOPOLOGY: linear | | | | | |
| | CLONE: HUMGS07087 | | ÷ | | | |
| | SEQUENCE DESCRIPTION: | | CCLOPCTUPA | <i><u></u><u></u> </i> | | 80 |
| | GATCTGGTTA AGTGTGCGGC CCTTATNACT TGCCAGCTCC | | | | | |
| 50 | CCCCAGAAGC CAAGCAGATG | | | | | |
| • | AAAAMAMAA AMMAMAMAA | I I I I I I I I I I I I I I I I I I | | | | |

| | ATTAAACCTC TTTTCTTTAT | AAA | | | | 203 |
|------------|---|--------------------------|--------------------------|------------|------------|-----------|
| 5 | SEQ ID NO:5970 SEQUENCE LENGTH:72 SEQUENCE TYPE:nucleic TOPOLOGY:linear | acid | | | | |
| 10 | CLONE:HUMGSO7088 SEQUENCE DESCRIPTION: GATCTTCCAA AAATTTATTA GATATAAAGA AA | AGTGTTTACT | TTTAAAGTGG | AAACAATGTT | TTTAAGAGGT | 60 72 |
| 15 | SEQ ID NO:5971 SEQUENCE LENGTH:106 SEQUENCE TYPE:nucleic TOPOLOGY:linear CLONE:HUMGS07089 | acid | | | | |
| 20 | SEQUENCE DESCRIPTION: GATCCCTAGC TTGTTTTCTG TGCTTATGAN CAATACAGTC | | | | ACAACAATCA | 60 106 |
| <i>2</i> 5 | SEQ ID NO:5972 SEQUENCE LENGTH:212 SEQUENCE TYPE:nucleic TOPOLOGY:linear CLONE:HUMGS07091 | acid | · | | | |
| 30 | SEQUENCE DESCRIPTION: GATCTGTGTG ACTGATGGGC ACCACTGACC TGGACCCNAA TGAGCAAATT GCATTTTANT GNNGACCNNG GTGGANGTTT | CAAAAAGCTG TGGGGCAGTT | ATTGTCTTTT GGAGTGTTGA | TAAAAGTTAT | TATTTTGCCC | 120 |
| 35 | SEQ ID NO:5973 SEQUENCE LENGTH:215 SEQUENCE TYPE:nucleic | | | | | - 3- |
| 40 | TOPOLOGY:linear CLONE:HUMGSO7093 SEQUENCE DESCRIPTION: GATCTACCCA CCTTGGCATC | CTAAAGTGCT | GGGATTACAG | GCGTGANTAC | CAAGCCCGGC | 60 |
| 45 | TTTTTTTGTT TTGACATGGA TCTNGGTTCA CTGCAACATN ANGNACCTGG GNTTACAGGT | GTTTCGNTCT CGCCTCCTGG | TGTCACCCAG NTTCAAGTGA | GCAGGAGTGC | AGTGGCGTTA | |
| _ | SEQ ID NO:5974 SEQUENCE LENGTH:140 | | | | | |
| 50 | SEQUENCE TYPE: nucleic | acid | | | | |

| 5 | TOPOLOGY:linear CLONE:HUMGS07094 SEQUENCE DESCRIPTION: GATCTGGAGG TTTACAGAAG AGAGAAGTGT CTGCACCTGC GNGCGAGACT CTGTCTCAAA | | | | | |
|----|---|------------|-------------|--------------|---------------|-----------|
| 10 | SEQ ID NO:5975 SEQUENCE LENGTH:133 SEQUENCE TYPE:nucleic TOPOLOGY:linear | acid | | · . | | |
| 15 | CLONE: HUMGS07095 SEQUENCE DESCRIPTION: GATCTGTTGA AGAACTCAGC TATGGAAAAT GTTTTCTGAA ATTTCCCCAT AAA | | | | | |
| 25 | SEQ ID NO:5976 SEQUENCE LENGTH:144 SEQUENCE TYPE:nucleic TOPOLOGY:linear CLONE:HUMGS07096 | acid | | | | |
| 30 | SEQUENCE DESCRIPTION: GATCCCTGCC CTTTGGCACA ATATTAATTA ATCACCCTTT TAATAAACTT GGTTCTACCT | ATTTTTTACA | | | | |
| 35 | SEQ ID NO:5977 SEQUENCE LENGTH:114 SEQUENCE TYPE:nucleic TOPOLOGY:linear CLONE:HUMGS07097 SEQUENCE DESCRIPTION: | acid | | | · | |
| 40 | GATCTAGAAA TTGCCCTCCT CTGGGCAACT AANTAAGGTT SEQ ID NO:5978 | | | | | 60 114 |
| 45 | SEQUENCE LENGTH: 112 SEQUENCE TYPE: nucleic TOPOLOGY: linear CLONE: HUMGS07098 SEQUENCE DESCRIPTION: | | onno onno o | CERTAL A CUE | TTC1 4 C1 CFC | 60 |
| | GATCTGACTT CAGACAGAAA | | | | | |

| 5 | SEQ ID NO:5979 SEQUENCE LENGTH:131 SEQUENCE TYPE:nucleic TOPOLOGY:linear CLONE:HUMGS07099 SEQUENCE DESCRIPTION: | acid | | | | |
|----|---|--|--|--------------------------|--------------------------|-------------------|
| 10 | GATCCGTCCC TAACAAACTA TAGCAATAAT CCCCATCCTN NACGTAAGGG N | | | | | 60 120 131 |
| 15 | SEQ ID NO:5980 SEQUENCE LENGTH:126 SEQUENCE TYPE:nucleic TOPOLOGY:linear CLONE:HUMGSO7100 SEQUENCE DESCRIPTION: | acid | | | | |
| 20 | GATCATGTAG GACGNGGCAT GCTCTACGGN AAAAAGAAGT AANAGN | | | | | 60 120 126 |
| 25 | SEQ ID NO:5981 SEQUENCE LENGTH:79 SEQUENCE TYPE:nucleic TOPOLOGY:linear CLONE:HUMGS07101 | acid | | | | |
| 30 | SEQUENCE DESCRIPTION: GATCTTATTT AACCAAAGAC GNANTTAATG ATATTGAAA | TATTTCATTC | CTGATATGAT | TTGTGTGCTT | GATTAAAATG | 60 79 |
| 35 | SEQ ID NO:5982 SEQUENCE LENGTH:271 SEQUENCE TYPE:nucleic TOPOLOGY:linear CLONE:HUMGS07102 SEQUENCE DESCRIPTION: | acid | | | | - |
| 40 | GATCAACAGG CTTATTAGAA AGTTAATGTT AGAGTATAAG GGGGTTTGAN TTTTAATCAG CAGTTGGTTT GTTTACTGCT | TGGTGGTAAT TGCTTTTNTG TTTGAGGACC | CTTGAATACT GGNAGTGGGG TTTCTGGAGG | TTTCCCATTA GTCAACTATC | AATATTGATG TTAATGATTA | 120 180 240 |
| 45 | GGAGTCTTTA AAGATGGAAA SEQ ID NO:5983 SEQUENCE LENGTH:125 SEQUENCE TYPE:nucleic | | n | · | | 271 |

55

50

TOPOLOGY: linear

| | CLONE:HUMGS07103 SEQUENCE DESCRIPTION: GATCAATATG TGACTGGAAC | CATTGGCGAG | GATGAAGATT | TGATAAAGTG | GAAGGCACTG | 60 |
|----|--|-------------|------------|------------|------------|----------|
| 5 | TTTGAGGAAG TCCCTGAGTT GCNTN | | | | | |
| 10 | SEQ ID NO:5984 SEQUENCE LENGTH:73 | | | | • | |
| 70 | SEQUENCE TYPE:nucleic TOPOLOGY:linear CLONE:HUMGS07104 | acid | | | | |
| | SEQUENCE DESCRIPTION: | | | | | |
| 15 | GATCTNATTG TATTGTCGAA TTTCCACAAG AAA | GGACTATTT | TNAACCTGTC | CAAATAAACT | CTGCAAAGNA | 60 73 |
| | SEQ ID NO:5985 | | | | | |
| | SEQUENCE LENGTH: 331 | • | | | | |
| 20 | SEQUENCE TYPE:nucleic | acid | | | | |
| | TOPOLOGY:linear CLONE:HUMGS07105 | | | | | |
| | SEQUENCE DESCRIPTION: | | | | | |
| 25 | GATCCTGCCC TGCTCTCAGC | CATAGTGAAG | GACCAGCCCT | AGGAGTCTGC | GAGAGCCTCC | 60 |
| | TTGGTTCCAT CGTGAAGCCA | | | | | |
| | GCCCTCTNAT GCCCCACTGA | | | | | |
| | GGGTCTAGGA GGGGCATTTT CTNAGAAGAG GGTGGAAGNA | | | | | |
| 30 | GTCTATTCTA GGGTTNGNGG | | | 1111000000 | KIAACCCAGN | 331 |
| | SEQ ID NO:5986 | | | | | |
| | SEQUENCE LENGTH: 107 | | | | | |
| 35 | SEQUENCE TYPE:nucleic | acid | | | | |
| 35 | TOPOLOGY:linear | | | | | |
| | CLONE: HUMGS07106 | | | | | |
| | SEQUENCE DESCRIPTION: GATCCCCTGG CCTGGTGCCC | AC ACTCCCTC | CCAAGCGCTC | GCCACCCTCA | CGTGGCTCAC | 60 |
| 40 | CTGCTGTTGA GCCTTGTGCT | | | | 0010001000 | 107 |
| | CPO IN NO.EGGG | | | | • | |
| | SEQ ID NO:5987 SEQUENCE LENGTH:83 | | | | | |
| | SEQUENCE TYPE:nucleic | acid | | • | | |
| 45 | TOPOLOGY: linear | | | | | |
| | CLONE: HUMGS07108 | | | | | |
| | SEQUENCE DESCRIPTION: | | ***** | 7884010111 | 180115115 | |
| | GATCAGATAT ATCCACAACG | | TITUAATATT | CITAGAGAAA | ATCAATAAAG | 60 83 |
| | | | | | | |

| 5 | SEQ ID NO:5988 SEQUENCE LENGTH:157 SEQUENCE TYPE:nucleic TOPOLOGY:linear CLONE:HUMGS07110 SEQUENCE DESCRIPTION: | acid . | | | | |
|------|---|--|--|--|--------------------------|------------------|
| 10 | GATCAAAAAT TGTGGACATA ACAAAATGTA AANNNCAATG GTTTAAAAAA ANTCGGNGAG | AACACTAAAT | TTAAGAGCAG | | | 60 120 157 |
| 15 | SEQ ID NO:5989 SEQUENCE LENGTH:280 SEQUENCE TYPE:nucleic TOPOLOGY:linear CLONE:HUMGSO7111 SEQUENCE DESCRIPTION: | acid | | | | |
| 20 | GATCGAGTCT GCTCTGACCT CTGTGGGCTG TGCCAAGTGT GCTGCTGCGC CTGATGTCGG ATCCAGGATT TTTTGTTTTT | GCCCAGGGCT GACAGCCCTG TGCTACAATC | GCATCTGCAA CTCCCAAGTA TTGACCCCTT | AGGGGCATCG CAAATAGAGT TGCTACATTC | GAGAAGTGCA GACCCGTAAA | 120 180 |
| . 25 | GTGAAATATG TGAATAATAA | TTAAACACTT | AGACTIGAAA | | | 400 |
| 30 | SEQ ID NO:5990 SEQUENCE LENGTH:205 SEQUENCE TYPE:nucleic TOPOLOGY:linear CLONE:HUMGS07112 SEQUENCE DESCRIPTION: GATCTCCAAG CAGGAATATG | | CAACCACTCC | CTCCACCCAA | ACTNOCOCTG | 60 |
| 35 | ATGGCACTCC TCCCCACACA CCACATTGCC CCCCTCCTCC AAAGAAGTAA AAATGTTTTA | CCTGCTCCCA TTTCCCTCTT | AGCTCAGATG | GAAGTCCCTT | AACCCCCATG | 120 |
| 40 | SEQ ID NO:5991 SEQUENCE LENGTH:127 SEQUENCE TYPE:nucleic TOPOLOGY:linear CLONE:HUMGSO7113 | acid | | | | |
| 45 | SEQUENCE DESCRIPTION: GATCTTTAGC AGTCTCTTCT GAAAAGAGGA CCTTNCTGTC TGCCAAA | | | | | |
| | SEQ ID NO:5992 | | | | | |

| . 5 | SEQUENCE LENGTH:240 SEQUENCE TYPE:nucleic TOPOLOGY:linear CLONE:HUMGS07114 SEQUENCE DESCRIPTION: GATCGCTTGA GCCTGGGTAG | | GAGCTGAAAT | GGCGCCNCTG | CACTCCAGCC | . 60 |
|-----|---|--|--|--|--|------------|
| 10 | TGGGTAACAG AGCGAGNCCC TGCACCATTC ATTATGCTAA TTGTTTTTAT TTGTATTTTN | CGACTCAATA GACATTTTAA | AATAAATAAG AGTAATTATG | GATGGATAAA AGAAACGCTC | TTGTAGCGTA TACTAATGAT | 120 180 |
| 15 | SEQ ID NO:5993 SEQUENCE LENGTH:328 SEQUENCE TYPE:nucleic TOPOLOGY:linear CLONE:HUMGS07115 | acid | · | | | |
| 20 | SEQUENCE DESCRIPTION: GATCAGAACG AGCTGTTAGA TGTAAACTCT CAAACGGAGC TCTCAGATGT TTTCAAGCAT TCTNTNTTTT TTTAAANCTG AGCGTGCTCA CCCAGGNCTN | AGACATTCTC GTGTAAAGGG TATGTNCAGA | TTTGAACCCA GACATGTTAT ATANTTNCNC | AACTGAAATT AGTTTCTTTC TGCCTTAATG | CATGTAAAGC TTTCTTTCTT TGTNCTGGNG | 180 240 |
| 25 | TNGTNTGGCA CTTAATGAAT | ANTTGTGN | | | | 328 |
| 30 | SEQ ID NO:5994 SEQUENCE LENGTH:250 SEQUENCE TYPE:nucleic TOPOLOGY:linear CLONE:HUMGS07116 SEQUENCE DESCRIPTION: | acid | | | | |
| 35 | GATCTTCAAA ATCCAGGAGG GTAAAACTAT TTNTTCTATT TTGTGAAGTT AATAAANTGC TGANAAANAC TTGGNGTAAG GTNNNGGAGN | ACTCCTTTTT CCATAGCTGT | TGCAAGTACA TCTATTACCT | TACATTAAAT TCAGAAACTA | GATAANTTNA TTTTCATAAT | 120 180 |
| 40 | SEQ ID NO:5995 SEQUENCE LENGTH:132 SEQUENCE TYPE:nucleic | acid | | | | |
| 45 | TOPOLOGY:linear CLONE:HUNGS07117 SEQUENCE DESCRIPTION: GATCCTCCTT CCTCAGCTAC | TCAGGAGGCT | GAGGCAGGNG | AATGGCATGA | ACCCAGGAGG | 60 |
| | CAGAGCTTGC AGGGAGCCAA | | | | | |

| 5 | SEQ ID NO:5996 SEQUENCE LENGTH:78 SEQUENCE TYPE:nucleic acid TOPOLOGY:linear CLONE:HUMGS07118 |
|----|---|
| 10 | SEQUENCE DESCRIPTION: GATCCTATAG GGAGGNCATT TCCTGTCCTG GAATTAGTAT TTCTAAAATG TGNATAAACT 60 TGTTTTATAA AAAGCAAA 78 |
| 15 | SEQ ID NO:5997 SEQUENCE LENGTH:118 SEQUENCE TYPE:nucleic acid TOPOLOGY:linear CLONE:HUNGSO7119 |
| 20 | SEQUENCE DESCRIPTION: GATCAGAAAG TGTTATTTAA CAGAAACTAC ATACATTTTT NATGTCTCTC TGGACCCTTT 60 GATCTAAGT AAATTTNCAG TAAGTNAGCA GTAATAGACT ATCCTNTTCA NCTATGAN 118 |
| 20 | SEQ ID NO:5998 SEQUENCE LENGTH:60 SEQUENCE TYPE:nucleic acid |
| 25 | TOPOLOGY:linear CLONE:HUNGS07120 SEQUENCE DESCRIPTION: GATCAAAAAG AGGAAACTTG AAATGTGATG GTGTTTATAA TAAAAGATGG TAAAACTAAA 60 |
| 30 | SEQ ID NO:5999 SEQUENCE LENGTH:127 SEQUENCE TYPE:nucleic acid TOPOLOGY:linear |
| 35 | CLONE:HUNGS07121 SEQUENCE DESCRIPTION: GATCTCCTTC AGAATTTTTG TCTTGACTTT GAATCTTTGC CTGTTTGTCT AAACATTTGA 60 CTAACATTCT GTTTGAATTT GGAAGTATTC TAATACAAGA TTTGAATAAA GTTTATCCTT 120 AAATAAA 127 |
| 40 | anni ann |
| 45 | SEQ ID NO:6000 SEQUENCE LENGTH:195 SEQUENCE TYPE:nucleic acid TOPOLOGY:linear CLONE:HUMGS07122 |
| 50 | SEQUENCE DESCRIPTION: GATCCTGGAG CTGGAGCATG AGTGTCTGAC AATCAGAAGC ATGATGTCCA ATGTCNNGAT 60 GGCCAGAATG AATGTAATAG TTCAGACCAA TGCCTGNCCA CTGCTCCTTT ATGACTGCAC 120 TTCTAGCCAG TAGCTCTGCA CAAGTNAGCT CTGTAGAAGT AGGANCTTGG GCTTAAGTCN 180 |

| | TGNGCTNTNT CTCCN | | | | | 195 |
|----|---|--------------------------|--------------------------|--------------------------|--------------------------|------------------|
| 5 | SEQ ID NO:6001 SEQUENCE LENGTH:156 SEQUENCE TYPE:nucleic TOPOLOGY:linear CLONE:HUMGS07123 | acid | | | | |
| 10 | SEQUENCE DESCRIPTION: GATCCCAGCA TGGGGTGAGC TACAAAAGGC AATTTACAAA GACTTCTGAG CGTCTCAGAN | GGACCAGGAC | CGCAGAGGCA | | | 60 120 156 |
| 15 | SEQ ID NO:6002 SEQUENCE LENGTH:177 SEQUENCE TYPE:nucleic TOPOLOGY:linear | acid | | · | | |
| 20 | CLONE:HUMGSO7124 SEQUENCE DESCRIPTION: GATCTGTCTA GCTTATTAAA TTGGGAAGCA CAGTGACCAA ATGTCAAATC CATGGTACCT | AAAAGTTGTA | TGGCTGCTTA | TTCATTAGTC | TTTCCTACTG | 60 120 177 |
| 25 | SEQ ID NO:6003 SEQUENCE LENGTH:305 SEQUENCE TYPE:nucleic | acid | | | | |
| 30 | TOPOLOGY: linear CLONE: HUMGSO7125 SEQUENCE DESCRIPTION: GATCCAGTTG GGACTAAGTG | ACATCGTATC | GGTTCCTGTT | CAGATGACAT | GGGGAAGATG | 60 |
| 35 | ATGGTTCAGC CACTGGTACT ATGATTTTNA TGAAGATTAA TTATTCTTAC TCAGAAAGGA TCTTACANCT GGANCATTGA AATGN | AAATATATAC AAATTTGTAA | ACAGTTCCTG ATATGTTTGT | GTATGTTGAG GTGGCTCAAA | GTTGTCTTTA CTGATACTAT | 180 240 |
| 40 | SEQ ID NO:6004 SEQUENCE LENGTH:307 | | | | | |
| 45 | SEQUENCE TYPE:nucleic TOPOLOGY:linear CLONE:HUMGS07126 SEQUENCE DESCRIPTION: GATCCTCAGG CTGGTATACG GGTTTGGGAG AGGAGCTGTT | GCGCAATGTT | | | | |
| 50 | GGAGACCCTC AGCCAAATGT GAGCCTGNCA TCCATCAGGT | GAAGNAGGCT | GCCCTCATTG | CCCTCCGGAG | CCTGCAACAG | 180 |

| | TCTNTGGGGG GNTCAGTCAC TTGNANN | TGCCACACAG | CAGTNCTAGG | CCTTGNCTGT | GCCAAAACAA | 300 307 |
|-----------------|--|--------------------------|--------------------------|--------------------------|--------------------------|------------|
| 5 | SEQ ID NO:6005 SEQUENCE LENGTH:215 SEQUENCE TYPE:nucleic TOPOLOGY:linear | acid | | ·, | | |
| 10 | CLONE:HUMGS07127 SEQUENCE DESCRIPTION: GATCTCTCTC CGGCCCCCTA GAGGGGCATT GACAGGTGGT TCTCCTGGCT GCCGGCGGNG | TTGACTGTTC | ACCCAGCAGC | CCCGCTTCCC | CACTGGTTTC | 120 |
| 15 | CACCGGCCNG GGNCNNAAGA | | | | | 215 |
| 20 | SEQ ID NO:6006 SEQUENCE LENGTH:273 SEQUENCE TYPE:nucleic TOPOLOGY:linear CLONE:HUMGS07128 | acid | | | | |
| 25 | SEQUENCE DESCRIPTION: GATCCGAGGG GAAATNTTTA CATCAAAGCT GGATAGGTTG CCTGGGTTCT GGNTTATCAC | GGCAGAAGAG GTGTGAGNGA | CTGGGGATAG AACNGGAGGT | CATTTAGAGA TGCTANTTGT | GGCTGAGAGT AGGTGGGCGT | 120 180 |
| | CAGGNCTNGA GTGNTGCTTC GTTACGCCAG ANGTTTNAGG | | | CCGGGTCTAA | GNTAGGGCAT | 240 273 |
| 30 | SEQ ID NO:6007 SEQUENCE LENGTH:250 SEQUENCE TYPE:nucleic TOPOLOGY:linear | acid | | | | |
| 35 | CLONE:HUMGS07129 SEQUENCE DESCRIPTION: GATCACAGGG AAAAACCGAC | | | | | |
| _. 40 | AAGGACGGAA CTCACCCCAG CCAGNAAGGT CACTAACCTG CCCCGNTTTG TGGTACGAGN NTTTTGCATN | GTCTCAGTGT | GGCCTTGTCC | AGCCTTGTGT | TTNCTGTTAA | 180 |
| 45 | SEQ ID NO:6008 SEQUENCE LENGTH:106 SEQUENCE TYPE:nucleic TOPOLOGY:linear CLONE:HUMGS07130 | | · | | | |
| 50 | SEQUENCE DESCRIPTION: | | TCCAGCCCAC | TGGGGCTCTN | ACCTCCACAT | 60 |

| | GTGGGTAGAA GCTTNCCTGC | CCCCTTTNCC | TCCAGGAAGC | CCTNAN | | 106 |
|----|---|--------------------------|--------------------------|--------------------------|-----------------------|------------|
| 5 | SEQ ID NO:6009 SEQUENCE LENGTH:108 SEQUENCE TYPE:nucleic | acid | • | | | |
| | TOPOLOGY:linear CLONE:HUMGSO7131 SEQUENCE DESCRIPTION: | | | | | |
| | GATCGCCTGA GCCCATGAGG GCCTGAGTGA CAGAGCAAGA | | | | CTGNATTCCA | 60 108 |
| 15 | SEQ ID NO:6010 SEQUENCE LENGTH:335 SEQUENCE TYPE:nucleic | acid | | | | |
| 20 | TOPOLOGY:linear CLONE:HUMGSO7132 SEQUENCE DESCRIPTION: GATCTAAAAC TATTTTCTG | | | | | |
| | TCTGACTATG ATGAATAAAT ATCCAAGACA TGAAGATATC TNTATGGGAA CTACATTTCA | AGTTCAACAA CTCTTGGTTT | ATACTGTAGT TCAGGATATA | TANGNGACTA GCAGCACTTC | NCTCTCCACT ACCGAGATAT | 180 240 |
| 25 | TCTTTCAGCC ATANCACTGG TCCCTCATTC GNTNCCTTTC | | | TCTGTAGCAC | TTANAGGANT | 300 335 |
| 30 | SEQ ID NO:6011 SEQUENCE LENGTH:112 SEQUENCE TYPE:nucleic TOPOLOGY:linear CLONE:HUMGS07133 | acid | | | | |
| 35 | SEQUENCE DESCRIPTION: GATCCAAAGT AGCTGGGATT TACTTAGTAC TCNTATTTTT | | | | | 60 112 |
| 40 | SEQ ID NO:6012 SEQUENCE LENGTH:279 SEQUENCE TYPE:nucleic TOPOLOGY:linear | acid | | | | |
| 45 | CLONE: HUMGSO7134 SEQUENCE DESCRIPTION: GATCTCCTTT TGATTAATTT TTATTGCTCA AATATCACAT | TTNATATTTA | TAACACAGGC | TACTGATGTT | GACATTTTAA | 120 |
| | CAGTTCAAGT GAAGTGTAGA CTTAAATGTC TTTCCCTACA NCTTTAACTA TCAATCATGC | TATATTTNTA | ACANGTATAT | | | |

| | SEQ ID NO:6013 SEQUENCE LENGTH:119 | |
|----|--|----|
| 5 | SEQUENCE TYPE:nucleic acid | |
| 5 | TOPOLOGY: linear | |
| | CLONE: HUMGS07135 | |
| | SEQUENCE DESCRIPTION: | |
| | GATCTGGGAC TGGCAGGTTA TTAATCGAGA TACACTTGTT AGGAGGGACA GGGTTCCCCT | |
| 10 | AAGGCACTTT TAAAGATACT CTGTAAGAAC CATTAACAAT AAACTTACTG TCAATCAAA 1 | 19 |
| | SEQ ID NO:6014 | |
| | SEQUENCE LENGTH: 315 | |
| | SEQUENCE TYPE: nucleic acid | |
| 15 | TOPOLOGY: linear | |
| | CLONE: HUMGS07136 | |
| | SEQUENCE DESCRIPTION: | |
| | GATCGAGGTT GTTTGCAACG ACCGTCTGGG GAAGAAGGTC CGCGTTAAAT GCAACACGGA | 60 |
| 20 | TGATACCATC GGGGACCTTA AGAAGCTGAT TGCAGCCCAA ACTGGTACCC GTTGGAACAA 1 | 20 |
| | GATTGTCCTG AAGAAGTGGT ACACGATTTT TGGGGACCAC GTGTCTCTGG GGGACTATGA 18 | 80 |
| | AATCCACGAT GGGATGAACC TGGAGCTTTA TTATCAATAG ATGAGAATGC TCATCTTCCT 24 | 40 |
| | GNTGNGGGNT TTNCTNTTCG NTNCTGGATN CNCCACACTG GGGNTAGATG CTTGNTTGTA 30 | 00 |
| | AANNNCTTNC CTTTN 3: | 15 |
| 25 | · | • |
| | SEQ ID NO:6015 | |
| | SEQUENCE LENGTH:218 | |
| | SEQUENCE TYPE:nucleic acid | |
| 30 | TOPOLOGY:linear | |
| | CLONE: HUNGS07137 | |
| | SEQUENCE DESCRIPTION: | |
| | GATCCTAAGT AGAACCAGGT AATTGTCTCT TTTTCTAATA AGGAATTTGG GTAATTTTNA | |
| | ATTTTTNGTT TTTTAAAAAA TAACCTAGAC TATGCAAAAC ATCAAAGTGA ATTTCCCATG 12 | |
| 35 | ANTGTTTTA ATATTCTCAT CTCAACATTG TGATATATGC TACTAAAANC CTTTNCATAT 18 | |
| | ACATCTNACC TCATTTCAGG TGANTNATTN TAATCTNN 23 | 18 |
| | SEQ ID NO:6016 | |
| 10 | SEQUENCE LENGTH:53 | |
| 40 | SEQUENCE TYPE:nucleic acid | |
| | TOPOLOGY: linear | |
| | CLONE: HUNGS07138 | |
| | SEQUENCE DESCRIPTION: | |
| 45 | GATCAGAGCA GAACTAAATN AAATTAGAAT AAAGTTAAAC AATTAAAAAG AAA | 53 |
| | SEQ ID NO:6017 | |
| | SEQUENCE LENGTH: 231 | |
| | SEQUENCE TYPE: nucleic acid | |
| 50 | TOPOLOGY: linear | |

| | CLONE: HUMGS07139 | | | | | |
|----|--|------------|------------|------------|------------|-----|
| | SEQUENCE DESCRIPTION: GATCGACTTA TACCTATGCT | AAAGTTAACG | CTCTCACAAG | GTAGATTAGT | CCTTCCCTAC | 60 |
| 5 | GGCTAGGGAG TGGGTTTGGG | | | | | • |
| | TTTGTAGCAC CATAAAGATA | | | | | |
| | ATTTGCATGG TATGTGANTT | • | | | | 231 |
| | Alliconide iniciamit | | | | - | |
| 10 | SEQ ID NO:6018 | | *, | | | |
| 10 | SEQUENCE LENGTH: 380 | | | | | |
| | SEQUENCE TYPE:nucleic | acid | | | | |
| | TOPOLOGY: linear | | | | | |
| | CLONE: HUMGS07140 | | | | | |
| 15 | SEQUENCE DESCRIPTION: | | | | | |
| | GATCCGCTCC TAACCTGCGA | | | | | |
| | TTAACANACG GGATGAAGTT | | | | | |
| | GTGTNAGACT GAGGATTTCG | | | | | |
| 20 | CTTNCNNGGG GCTCCTGCTG | | | | | |
| | AAGATGTGTA CAGCTGGTCT | | | | | |
| | TNGGCCTGGA CCTNCCGGTC | TAACTGCAAG | CATCTTCCCC | AGGGCAAAGG | NTTTNTGGGG | |
| | GAACGNGAGG TTTNATNTTN | | | | | 380 |
| 25 | SEQ ID NO:6019 | | | • | | |
| | SEQUENCE LENGTH: 107 | | | | | |
| • | SEQUENCE TYPE:nucleic | acid | | | | |
| | TOPOLOGY: linear | | | | • | |
| | CLONE: HUNGS07141 | | | | | |
| 30 | SEQUENCE DESCRIPTION: | | | | | |
| | GATCTATTTT GTGTGTTTTG | AAACTTAGGT | GCAATNTCCC | CTGGAAAAAG | CTAAAGAAAT | 60 |
| | GTATATGTTC AATNACATTT | TAAAATAAAA | TATTATATAT | ATGTAAA | | 107 |
| | SEQ ID NO:6020 | | | | | |
| 35 | SEQUENCE LENGTH: 52 | | | | | |
| | SEQUENCE TYPE:nucleic | acid | | | | |
| | TOPOLOGY: linear | acru | | | | |
| | CLONE: HUMGS07142 | | | | | |
| 40 | SEQUENCE DESCRIPTION: | | | | | |
| | GATCGATTTG ATAAAATTAA | ACAAAGTGCT | TTTAATGGAA | AAAAAAAAGA | AA | 52 |
| | | • | | | | |
| | SEQ ID NO:6021 | | • | | | |
| 45 | SEQUENCE LENGTH: 355 | | | | | |
| | SEQUENCE TYPE: nucleic | acid | | | | |
| | TOPOLOGY:linear | | | | | |
| | CLONE: HUNGSO7143 | | | | | |
| 50 | SEQUENCE DESCRIPTION: | | | | Baa | |
| 50 | GATCCACTGT AATAGTCCAG | TTTGGGGTGC | AGACAAGTGT | GAAGAACTTC | TGGAAAAGAC | 60 |

| | AGTGAAAAAC TGCTTGGCCC | TGGCTGTTGA | TAAGAAGCTG | AAATCCATTG | CATTTCCATC | 120 |
|----|---------------------------------------|-------------------|------------|------------|------------|-----|
| | CATCGGCAGC GGCAGGAACG | GTTTTCCAAA | GCAGACAGCA | GCTCAGCTGA | TTCTGAAGGC | 180 |
| | CATCTCCAGT TACTTCGTGT | CTACAATGTC | CTCTTCCNTC | AAAACGGTGT | ACTTCGTGCT | 240 |
| 5 | TTTNGACAGC GAGAGTATAG | GCATCTNTGT | GCAGGANATG | GCCAAGCTGN | GCGCCGGNNN | 300 |
| | NGGCTNGNGC AATGNCAGGA | CCNGNTTGCA | CCATGGTACC | GNACCTTNAG | TTTNN | 355 |
| | | | | | | |
| | SEQ ID NO:6022 | | | | | |
| 10 | SEQUENCE LENGTH: 122 | | | | • | |
| | SEQUENCE TYPE: nucleic | acid | | | | |
| | TOPOLOGY: linear | | | | | |
| | CLONE: HUMGS07144 | | | | | |
| | SEQUENCE DESCRIPTION: | | | | | |
| 15 | GATCTTGGAG CTNCTGGAGA | | | | | 60 |
| | CCCGCAGGCT CGTGCGCCAC | CCCGTCCTGG | TGAATAAACG | CACTCCCTGT | GCCTCAGACA | 120 |
| | AA · | | • | | | 122 |
| | CEO ID NO.COSS | | | • | | |
| 20 | SEQ ID NO:6023 SEQUENCE LENGTH:162 | | | | | |
| | SEQUENCE TYPE:nucleic | naid | | | | |
| | TOPOLOGY: linear | aciu | | - | | |
| | CLONE:HUMGS07145 | | | | | |
| | SEQUENCE DESCRIPTION: | | | | | |
| 25 | GATCCGATAA TGTACCATGT | CCCTCCTCGT | TTGGCCTGTG | CTGTTTCTGC | TNTTTGCCCC | 60 |
| | TNACTTCCTG TGCTAGAGAA | | | | | |
| | GTGGTCCTTT GGGACTCTTG | | | | , addammed | 162 |
| | diddicciti ddaciciti | VIVVVVVIIII | INIUNITIUN | AA. | | 142 |
| 30 | SEQ ID NO:6024 | | | | | |
| | SEQUENCE LENGTH: 179 | | | | | |
| | SEQUENCE TYPE:nucleic | acid | | | | |
| | TOPOLOGY: linear | | | | | |
| 35 | CLONE: HUMGS07146 | | | • | | |
| 33 | SEQUENCE DESCRIPTION: | | | | | |
| | GATCCAGGCC AATGCATGGC | TATTGCTGTA | AATCTTGATG | TTTATTTCTG | CCTTGTAAAG | 60 |
| | TTCTATCACG GCCTACCTGG | TAAAATTTAA | TCAGTAGACA | AATTAATTGG | TCCTCTGCAC | 120 |
| | AACTTTTTTA ATAAGTAGAT | TATTTTNCAA | NGGGNTTNGA | NCAANTTTNA | TTGANTCTN | 179 |
| 40 | | | | | | |
| | SEQ ID NO:6025 | | | | | |
| | SEQUENCE LENGTH: 403 | | | | | |
| | SEQUENCE TYPE:nucleic | acid | | | | |
| 45 | TOPOLOGY: linear | | | | • | |
| | CLONE: HUMGS07147 | | | | • | |
| | SEQUENCE DESCRIPTION: | | | | | |
| | GATCAGAGTG GCTGGAGCAG | AGTGAATNAG | GAGGGAAGCT | GAGTAGCAGG | TATCTGAGAA | 60 |
| | GCAATGCAGC CCGCAGCTTA | ACTTCAACAT | GCTTTTAAAC | TTTTTNCCCA | TTCTNTTGAG | 120 |
| 50 | TTTCAAGATA TAACCTTGAG | GAAACTCAAA | ATCCTTTCTC | CTTAGCCTTA | AAATAGACTC | 180 |

| | CACGTCCCTC CCCTTTNTCA TATTTAATTG TGTGATGTCT | | | | | |
|----|--|------------|------------|--------------|-------------------|-----|
| | GAGACCCAGC TGGCAANCCT | TCCANNATTT | ANCTTCAAAA | TTGGCTAATT | NANCAACCNG | |
| 5 | GCCCTTNGTT NNAAATTATG | GTNATTCCGG | GGGNCCCGGN | TGN | | 403 |
| | SEQ ID NO:6026 SEQUENCE LENGTH:198 | | | | | |
| | SEQUENCE TYPE:nucleic | acid | | • | | |
| 10 | TOPOLOGY: linear | GC14 | | | | |
| | CLONE: HUMGS07150 | | | • | | |
| | SEQUENCE DESCRIPTION: | | | | | |
| | GATCTTGCTG CAGCCACAGT | GCAGTCCACA | TTAACTCTAC | AGACCAAACC | ATTTGTATCT | 60 |
| 15 | GGCATCACTT ACTAACACAC | | | | | |
| | AAGGAATAGA AAACTGATAC | TGTTTTAAAT | ANTCTGTAAT | TTCAATTTTT | TTNTTTTTNN | |
| | GCTGAANTGG GTCNTNTN | | | | | 198 |
| | SEQ ID NO:6027 | | | | ٠ | |
| 20 | SEQUENCE LENGTH: 190 | | | | | |
| | SEQUENCE TYPE: nucleic | acid | • | | | |
| | TOPOLOGY:linear | • | | | | |
| | CLONE: HUMGS07151 | | | | | |
| 25 | SEQUENCE DESCRIPTION: | 071010F17F | ****** | ************ | CACALACATO | gn. |
| | GATCATAACT CTTTNTTGAA GTTAAAGTTT AAAACTAGAA | | | | | |
| | GCAGGCTAGG CTGTCTTGGG | | | | | |
| | ANNNANNN | · | | | | 190 |
| 30 | | | | | | |
| | SEQ ID NO:6028 | | | | | |
| | SEQUENCE LENGTH: 217 | | | | | • |
| | SEQUENCE TYPE:nucleic | acid | | | | • |
| 35 | TOPOLOGY: linear | | | | | |
| | CLONE: HUMGS07152 | | | | | |
| | SEQUENCE DESCRIPTION: GATCTTGTGN CATTNTTGAC | C##CC+CC#C | C##CC##14C | CACCACTCC | CCCALACCAG | 60 |
| | AGTGCCAGGA GCTAATGGAG | | | | | |
| 40 | TAGATGGTGC AAAGNTGGGG | | | | | |
| | ACCCACCCA ATCCCAGNNT | | | | | 217 |
| | SEQ ID NO:6029 | | | | | |
| 45 | SEQUENCE LENGTH: 136 | | | | | |
| 70 | SEQUENCE TYPE:nucleic | acid | | | | |
| | TOPOLOGY: linear | | | | | |
| | CLONE: HUMGS07153 | | | | | |
| | SEQUENCE DESCRIPTION: | | | | 50.000.000 | •• |
| 50 | GATCGGAGCC TACTTCCCTC | CGUTUAGCCT | NGAGGAGCTG | AUNCUCTACT | LUAGGGACUG | υŪ |

| | TGGGTGGCCT CTGCCCGGGC CCCTCGGCGG CTCAAA | CCCTCTAGAC | GTGCACCAGA | AATAAAGGCG | AAGACCCAGC | 120 136 |
|-----|---|------------|------------|------------|---------------------|------------|
| 5 . | SEQ ID NO:6030 SEQUENCE LENGTH:278 | | | | | |
| | SEQUENCE TYPE:nucleic TOPOLOGY:linear | acid | | . • | | |
| 10 | CLONE: HUMGS07154 SEQUENCE DESCRIPTION: | | ****** | G#CG#1#6G1 | A TRU A T 4 T 4 C C | 60 |
| | GATCCAAACC CAAGTCTTGA AAAATACATT GTGTTTTCCT | | | | | 60 |
| | TGGTCCTGCC TAAATTTCAC | | | | | |
| 15 | ACCAATATCA TGTGTAGATA | | | | | |
| | GTGTTGCTGT NTATCCTTGN | | | | 10112101101 | 278 |
| | SEQ ID NO:6031 | | | | | |
| 20 | SEQUENCE LENGTH: 65 | | | | | • |
| | SEQUENCE TYPE:nucleic TOPOLOGY:linear | acid | | | | |
| | CLONE: HUMGS07156 | | | | | |
| | SEQUENCE DESCRIPTION: | | | | | |
| 25 | GATCAGTTGA TGTACACTTG | TATTATTAAA | GCACTCAATA | AATCACTGTG | GCTGATAACT | 60 |
| | GCAAA | | | | | 65 |
| | SEQ ID NO:6032 | • | | | | |
| | SEQUENCE LENGTH: 161 | | | | | |
| 30 | SEQUENCE TYPE:nucleic | acid | | | | |
| | TOPOLOGY: linear | acru | | | | |
| | CLONE: HUMGS07157 | | | | | |
| | SEQUENCE DESCRIPTION: | | | | | |
| 35 | GATCCACATG GCACGGTGAC | TGTAGTTAAT | GCATTTTATA | TGTCAAAATT | CCTTANATAG | 60 |
| | TAGATTTTAA ATAATCTCAC | CACAAAAAAG | TAGATGTGTT | GGTGATGGAT | ATCTTANTTN | 120 |
| | GCTTAANGTA NTTGTNTCAC | CAATGTATAC | ATNTATCAGN | N | | 161 |
| | SEQ ID NO:6033 | | | | | |
| 40 | SEQUENCE LENGTH: 130 | | | | | |
| | SEQUENCE TYPE:nucleic | acid | | | | |
| | TOPOLOGY: linear | | | | | |
| | CLONE: HUMGS07158 | | • | | | |
| 45 | SEQUENCE DESCRIPTION: | | | | | |
| | GATCATCTTT ACAGTTCCTC | | | | | |
| | ATGAAAACAG GAAAATAAAA GGNTTTCAAA | GAGAAATTTA | GAAAATACAG | CTCATTACAA | TAAANNTNTT | 120 130 |
| 50 | SEQ ID NO:6034 | | | | | |

| | SEQUENCE LENGTH: 165 |
|----|---|
| | SEQUENCE TYPE:nucleic acid |
| 5 | TOPOLOGY: linear |
| | CLONE: HUMGS07160 |
| | SEQUENCE DESCRIPTION: |
| | GATCTGGCCC AAGCTGGGCT CCCTNNAAGC CAAGAGAGCC TCTNATNGAC CCCGCCTGCC 60 |
| | CGAATGAAAT CCGAACAGTT GGGGCTGTTC ATGGCAAGTG GGGCTGGTTT TTCATNTCCA 120 TTGGTTATTT AAAGTTTCCN TTAAAATAAA CGATTTTAAG TTAAA 165 |
| 10 | TIGGITATIT AAAGTITCCN TTAAAATAAA CGATTTTAAG TTAAA 165 |
| | SEQ ID NO:6035 |
| | SEQUENCE LENGTH:77 |
| | SEQUENCE TYPE:nucleic acid |
| 15 | TOPOLOGY: linear |
| | CLONE: HUMGS07161 |
| | SEQUENCE DESCRIPTION: |
| | GATCTGGGGT CTGTTTTGTT CATTACTTTG TTCACTCCTT CTTCCATTTA TTCATTCAAT 60 |
| | AAACATTTAT TGGGAAA 77 |
| 20 | · " |
| | SEQ ID NO:6036 |
| | SEQUENCE LENGTH: 310 |
| | SEQUENCE TYPE:nucleic acid |
| 25 | TOPOLOGY: linear |
| | CLONE: HUMGS07162 |
| | SEQUENCE DESCRIPTION: |
| | GATCCGGCTT GCCCAGAAAG AGAAGACAGC CATGGAAGTG GAAGCCCCTT CAAAGCCAGC 60 |
| 30 | CAGGACTAGT GAACCACAGC TCAAAAGGCA AAAGAAGACA AAAGCCCCCC AGGATGTAGA 120 |
| 30 | AATGAAGGAC CTTGAAGATG AGAGCTAAAC CTCTTCCACT AGAAGATTCT CAACTGGAGC 180 |
| | CAGCCTTCNG GCTCAGTGGT TGTTTCAGAG GACTTTGACA AAAGCAAGGC CCCTTTTCAC 240 |
| | TCTCCAGATT TCCTCCTACC TAATGGCCTA CTGACCTCCC CTTAGAGGGA TGTNTTTGGG 300 |
| | NGGGAAGNTN 310 |
| 35 | |
| | SEQ ID NO:6037 |
| | SEQUENCE LENGTH: 288 |
| | SEQUENCE TYPE:nucleic acid |
| 40 | TOPOLOGY: linear |
| | CLONE: HUNGS07163 |
| | SEQUENCE DESCRIPTION: GATCCAGAAC ACTTCAAGAA CTCGTCAAAC AGCTCGATAA GCCTTTTTGA CTGTNTACAT 60 |
| | |
| | CTGTACCGGG AATAACATTC CTAGGCTGAA ATTTCCACAA AGANTAGAAC CTGTACCCAG 120 TTCTTCAGGC TGATTTCCCT GACCTCTTGG GCATTTGTAT TTGTAGTAAA GTATTGCAGA 180 |
| 45 | GATTCCTAAG TATTTTTNNA GCAGCCATNA AAAATTGGNC TTTGTNTTNG TTGATTCATN 240 |
| | |
| | NGGAGGGCAA GTTGGGGANT AGACTTCAGT NGANCTCGGT ATGGNTGN 288 |
| | SEQ ID NO:6038 |
| 50 | SEQUENCE LENGTH:51 |
| | |

| 5 | SEQUENCE TYPE:nucleic TOPOLOGY:linear CLONE:HUMGS07164 SEQUENCE DESCRIPTION: | acid | | | | |
|----|---|------------|------------|------------|------------|-----|
| | GATCACGCCA CTGCACTCCA | GCCTGGGCAC | CAGAGTGAGA | CACTGTTTAA | A | 51 |
| ** | SEQ ID NO:6039 SEQUENCE LENGTH:195 | | | | | |
| 10 | SEQUENCE TYPE: nucleic | acid | | | | |
| | TOPOLOGY:linear CLONE:HUMGSO7165 | | | | | |
| | SEQUENCE DESCRIPTION: | | | | | |
| 15 | GATCTGGGCA GGGAACATCA | | | | | |
| | AGGGATAGCA TTAGGGGAAA | | | | | |
| | ACATGGCACA TGTATACCTA | TGTAACAAAT | CTGCATGTTG | TGCACGTGTA | CCCTAGAACT | |
| | TAAAGTATAA TTAAA | | | | | 195 |
| 20 | SEQ ID NO:6040 | | | • | | |
| | SEQUENCE LENGTH: 75 | | | | | |
| | SEQUENCE TYPE:nucleic | acid | | • | | |
| | TOPOLOGY: linear | | | | | |
| 25 | CLONE: HUNGS07166 | | | | | |
| | SEQUENCE DESCRIPTION: | | | _A | | |
| | GATCAGGCCC CACCTTGTGT | CTACCCCCAT | CCCNGCTGTG | AACGTGACAN | TGAATAAAGT | |
| | CGGGGAAACG CGAAA | | | | | 75 |
| 30 | SEQ ID NO:6041 | | | | | |
| | SEQUENCE LENGTH: 315 | | | | | |
| | SEQUENCE TYPE: nucleic | acid | | | | |
| | TOPOLOGY: linear | | | • | | |
| 35 | CLONE: HUNGS 07167 | | | | | |
| | SEQUENCE DESCRIPTION: | | | | • | |
| | GATCTGAATT GAGGAACTTG | | | | | |
| | TTCCTATGTA TTTGACTACT | | | | | |
| 40 | TTTGTGACTA GCTTACTTCA GTCAAAATTN CCTTCCTNGC | | | | | |
| | TCCAGTCATT CATCAATGAN | | | | | |
| | CATGGTNATA TTTTN | | | 101100000 | ormorudda. | 315 |
| 45 | SEQ ID NO:6042 | • | | | | |
| 40 | SEQUENCE LENGTH: 79 | | | | | |
| | SEQUENCE TYPE:nucleic | acid | | | | |
| | TOPOLOGY: linear | | | | | |
| | CLONE: HUNGS07169 | | | | | |
| 50 | SEQUENCE DESCRIPTION: | | | | | |

| | GATCTAAGCT GATTTAAATC GACCTTTATT CACTAGAAA | TAAAAACTGG | ATAAGAAGCT | GTGGCTTGTA | ATTAAAAATA | 60 79 |
|-----------|---|--------------------------|--------------------------|--------------------------|--------------------------|------------|
| 5 | SEQ ID NO:6043 . SEQUENCE LENGTH:189 SEQUENCE TYPE:nucleic TOPOLOGY:linear CLONE:HUMGS07170 | acid | | | | |
| 15 | SEQUENCE DESCRIPTION: GATCAGGTAT TTAAAGGACA CTGTAGCTAT AATTATTACT AGANTGCATT TCGAATCAGG TCTGTTAAA | GTNCCACTAG | CTGTTTACTT | AAGTAACATT | GAATTTCCAC | |
| . 20 | SEQ ID NO:6044 SEQUENCE LENGTH:151 SEQUENCE TYPE:nucleic TOPOLOGY:linear CLONE:HUMGS07171 SEQUENCE DESCRIPTION: | acid | | | | |
| 25 | GATCTGGAGT GGAAGGGGAA TTTNATATAT ATATGTAAAT GGGGCTTTTT GCAACCCAAT | TTNCACAATA | AAATTTTTTN | | | |
| 30 | SEQ ID NO:6045 SEQUENCE LENGTH:178 SEQUENCE TYPE:nucleic TOPOLOGY:linear CLONE:HUMGS07173 | acid | | | | |
| 35 | SEQUENCE DESCRIPTION: GATCATAGCA CTNTATCATC ATGNGAGAAT TCATCAAGCT AATAAATTGA AACAGTAAAC | GTATGTACAT | TTATTGTGCT | CTTCATTGTA | TGTATAANTC | |
| 40 | SEQ ID NO:6046 SEQUENCE LENGTH:380 SEQUENCE TYPE:nucleic TOPOLOGY:linear CLONE:HUMGS07174 | acid | · | | | |
| 45 | SEQUENCE DESCRIPTION: GATCCGTCAC AGACTAAGGA CTGTTTCTNT CCTCCGCTTA CATTGCTAGC TGTCCTGCTG | ACCAAGCTGT TTTAACACAG | TGTGGTTTTT TGTTGTATTT | NAGCATAGTG TTTTNCTAAA | TTGTATGTTC TGTACATAAT | 120 180 |
| 50 | TAGAAAAGAA GATAACAATA TGGAAAAATG GTGTGGCTAG | | | | | |

| | ATCTAAGTTT GCTTTTGACC AGCANTCCAG GCCTCTTTGN | | AGTAGCAATT | NTGCTTTCAT | AATCCNTTTT | 360 380 |
|----|--|--------------------------|--------------------------|--------------------------|------------|------------|
| 5 | SEQ ID NO:6047 SEQUENCE LENGTH:72 SEQUENCE TYPE:nucleic TOPOLOGY:linear CLONE:HUMGS07175 | acid | | | | • |
| | SEQUENCE DESCRIPTION: GATCGTAATG TAAAATTCTT CCTCTTTCTA AA | TTACCATGTC | AAGAAATTAT | TAAAAATACA | GGTACTTTGA | 60 72 |
| 15 | SEQ ID NO:6048 SEQUENCE LENGTH:226 SEQUENCE TYPE:nucleic | acid · | | | | |
| 20 | TOPOLOGY:linear CLONE:HUMGS07178 SEQUENCE DESCRIPTION: | | | | | |
| | GATCCTGAAA AGATAGGGCT GNCTCCTNAG CCCACCCCCT AGTTGTGCTG AGAATGGCAC | TGGGGCACAA CTGGNGAGAG | CCTGCCACTG CCTTCTGTGT | CCACAGTAGC GCCAGNTTTT | TCAACCAAGC | 120 180 |
| 25 | CTGTACATGT ATTANNTCCT | NTACTGCTNG | CCACATTGTA | CCNNTN | | 226 |
| | SEQ ID NO:6049 | | | • | • | |
| | SEQUENCE LENGTH: 225 SEQUENCE TYPE: nucleic | acid | | | | |
| 30 | TOPOLOGY: linear | | | | • | |
| | CLONE: HUMGS07179 SEQUENCE DESCRIPTION: | | | | | |
| | GATCCCCGTA CCACAGTGCC | AGCCATGCCC | TTCCCCTGGG | CTACCATTGT | CCCTTTCCTC | 60 |
| 35 | ACCCAGTTGG TAGAGGAGTC | | | | | |
| | CACTGTGGGG GTGGGGGAGG AANTATCANT AAANTCAAAC | | | | TAATATATTT | 180 225 |
| | AANIAICANI AAANICAAAC | ICITIGIAAA | DANNARARA | NANUN | | 443 |
| 40 | SEQ ID NO:6050 | | | | | |
| | SEQUENCE LENGTH: 332 SEQUENCE TYPE: nucleic | acid | | | | |
| | TOPOLOGY: linear | | | | | |
| | CLONE: HUMGS07180 | | | | | |
| 45 | SEQUENCE DESCRIPTION: | | | | | |
| | GATCATCCTG GGCAGCAAAG | | | | | |
| | TTTTATATTG TTTTATACTC | | | | | |
| | GACAGGCAGC CCGGCACCAG AGTTAAAATT CAACTTACGA | | | | | |
| 50 | AAAANATTTC TCANACTCCC | | | | | |

| | TCCCCTAGAT TGCTCANTCA | NTCNCGGTTT | GN | | | 332 |
|----|--|------------|------------|------------|---|----------|
| 5 | SEQ ID NO:6051 SEQUENCE LENGTH:259 SEQUENCE TYPE:nucleic | acid | | | | |
| 10 | TOPOLOGY:linear CLONE:HUMGSO7181 SEQUENCE DESCRIPTION: GATCACAGGC CTTTGGAGCA TGGACAGTCT TGATGGGTT ATAGATAAAA GTCTTTATAT | GAGAACCTTC | TGGGGAGCCA | GATGACCCTC | TCTTTGCACA | 120 |
| 15 | TTTCTGGAGA ATGAGAATTA TATGCTTCTG GTCCTTAAA | | | | | |
| | SEQ ID NO:6052 SEQUENCE LENGTH:92 SEQUENCE TYPE:nucleic | acid | | | | |
| 20 | TOPOLOGY:linear CLONE:HUMGS07182 SEQUENCE DESCRIPTION: GATCGNACCA CTGCACTCCA | GCCTGGAAGA | CCAAACGAGA | CTCTGTATCA | AAAAATAATA | 60 |
| 25 | ATAATTAATA AAGTTTTACT | | | 0101011101 | 188001111111111111111111111111111111111 | 92 |
| 30 | SEQ ID NO:6053 SEQUENCE LENGTH:92 SEQUENCE TYPE:nucleic TOPOLOGY:linear CLONE:HUMGS07183 | acid | | | | |
| 35 | SEQUENCE DESCRIPTION: GATCAGCTAC AATGCCCTGT AAAGTTGTAA ATAAAGACCA | | | CCCTTTTCTT | TTTTGCCAAT | 60 92 |
| | SEQ ID NO:6054 SEQUENCE LENGTH:95 SEQUENCE TYPE:nucleic | acid | · | | | |
| 40 | TOPOLOGY:linear CLONE:HUMGSO7185 SEQUENCE DESCRIPTION: | | · | | | |
| 45 | GATECETTEE CGCCACACGA GGTGACAGGA GAACAATNTT | | | TGAATNCCGC | GTCCTGTCCT | 60 95 |
| | SEQ ID NO:6055 SEQUENCE LENGTH:155 SEQUENCE TYPE:nucleic | acid | | | | |
| 50 | TOPOLOGY: linear | GOIG | | | | |

| | CLONE:HUNGSO7186 SEQUENCE DESCRIPTION | | | | | |
|----|--|--------------|---|-------------------|-------------------|-----|
| | GATCTCCTTC TCACTGCAT | | | 1050151550 | #N######## | |
| _ | GGACAGTAAT AACCTTTTN | | | | | |
| 5 | TCCAAATAGA AGCCAGAGT | | | IIGCCIICIG | IAGIGIACII | |
| | ICCAMAINUM NUCCAUNUI | G AIACCITATA | LILAAA | | • | 155 |
| | SEQ ID NO:6056 SEQUENCE LENGTH:138 | | | | | |
| 10 | SEQUENCE TYPE:nuclei | : 4 | | | | |
| | TOPOLOGY: linear | c acid | | | | |
| | CLONE: HUNGS07187 | | | | | |
| | SEQUENCE DESCRIPTION | • | | | | |
| | GATCAGGAGG CCCACTTGG | | AGCCCTTCCT | CCACTCCCAC | CAGACTTGCT | εn |
| 15 | CATTITCCGA GITTITAAC | | | | | |
| | TATTTCTGTT GTCCTAAA | | OTATIONOTI | .17511111110 | OTOTAGGATT | 138 |
| | SEQ ID NO:6057 | • | | | | |
| 20 | SEQUENCE LENGTH: 158 | | | | | |
| | SEQUENCE TYPE:nuclei | c acid | | | | |
| | TOPOLOGY: linear | | | | | |
| | CLONE: HUMGS07188 | | | | | |
| 25 | SEQUENCE DESCRIPTION | | | | | |
| | GATCTGAAAA CCAAGTGGT | G ACCTAGGGAG | GGAACAAGCN | CTGTGCAGCA | TTGATGAAAC | 60 |
| | TTAAAAGATG AAGTCCTGG | | | CTNTAATTCC | AACACTTTGG | 120 |
| | GAGGCCGAGG CAGGAAGAT | GCTTCANCCC | ACGACAAA | | | 158 |
| 30 | SEQ ID NO:6058 | | | | | |
| | SEQUENCE LENGTH: 151 | | · | | | |
| | SEQUENCE TYPE:nucleio | acid | | | | |
| | TOPOLOGY: linear | | | | • | |
| 05 | CLONE: HUNGS07192 | | | | | |
| 35 | SEQUENCE DESCRIPTION | | | • | | |
| | GATCTNTGGC CCACTCCGC | A TAAATCAGGT | GCATAATGTA | GCTGCCCGGG | CTTCTATACT | 60 |
| | GCAACATTCG CAAGGCAAT | R AGCTTGAAAA | CTGAATTGAT | GTACATTGAT | ATAATTTTT | 120 |
| | AAGTTATTGT AATATATTC | CTCGTTATAA | A | | | 151 |
| 40 | | | | | | |
| | SEQ ID NO:6059 | | | | | |
| | SEQUENCE LENGTH: 362 | | | • | | |
| | SEQUENCE TYPE:nucleio | acid | | | | |
| 45 | TOPOLOGY: linear | | | | | |
| 70 | CLONE: HUMGS07193 | | | | | |
| | SEQUENCE DESCRIPTION: | | | | | |
| | GATCTATACC CTAAGCAGAT | | | | | 60 |
| | GTTTCCCTCA AAACAACGCT | | | | | |
| | Local Calain L Mile & Till L & LaT'TI' | TACTOR ACTOR | I I A A I A I A I A I A I A I A I A I A | ACTICATION OF THE | ILIZARIA A SZASZC | INU |

| 5 | CAAAGCTACA GGTTTACTTG CTTGGTTTTN GCCAGGCTCC CCTTTCCNGN CCTNCNGTCT GN | TCCGAGCACC | TCATGCATGT | CCCAGCCCCT | GGGCCCTAGC | 300 |
|----|---|------------|------------|------------|------------|------------------|
| 10 | SEQ ID NO:6060 SEQUENCE LENGTH:149 SEQUENCE TYPE:nucleic TOPOLOGY:linear CLONE:HUMGS07194 | acid | | | | |
| 15 | SEQUENCE DESCRIPTION: GATCCATCAT NATGTAAAAN TGGAGGCATG CATAACCTTC GCAATTAGAT TAANTCATAA | CTCTTAGAAA | | | | 60 120 149 |
| 20 | SEQ ID NO:6061 SEQUENCE LENGTH:184 SEQUENCE TYPE:nucleic TOPOLOGY:linear | acid | | | | |
| 25 | CLONE: HUMGS07195 SEQUENCE DESCRIPTION: GATCTTGCTT TAACTTTCAA GTATTGCCAC CCATGACATT TCGATGANGA TTGTATTTTN CTNN | TAACATGTTG | TGATGCTTGA | AAACACAGGA | GTAGAGAAAN | |
| 30 | SEQ ID NO:6062 SEQUENCE LENGTH:196 SEQUENCE TYPE:nucleic TOPOLOGY:linear | acid | | | | |
| 35 | CLONE:HUMGS07196 SEQUENCE DESCRIPTION: GATCAGTAGT CTCTATTCAA AAAGANGGTT ACAGACTCCC | CTGAAGAACC | AGCTTTCCTA | CGCTTTTNAT | TTTNCTAACT | 120 |
| 40 | TGTCTAACCT GATTTNAAAA TCANGACATT NTGCTN | TGACTGCANT | TCCAGACTAA | AAACATGCTT | CANCCCTGTT | 180 196 |
| 45 | SEQ ID NO:6063 SEQUENCE LENGTH:295 SEQUENCE TYPE:nucleic TOPOLOGY:linear CLONE:HUMGS07199 SEQUENCE DESCRIPTION: | acid | | | | |
| 50 | GATCCAAACT CTACATCCAG TACATGTTGG GTGAAAGANA | | | | | |

| | TTCAGATTGC GGTAGTTTAC NCTGAGANCA CCACAGANTG TGTNACCAAN TTATNGTNAT | ATTTATCCAA | AGTCCATTGA | TTTTNATACG | TGTTTTGGTT | |
|----|---|-------------|------------|---|------------|-----|
| 5 | | | | | • | |
| | SEQ ID NO:6064 | | | | | |
| | SEQUENCE LENGTH: 312 | | | | | |
| | SEQUENCE TYPE:nucleic | acid | | | | |
| | TOPOLOGY: linear | | | | | |
| 10 | CLONE: HUMGS07200 | | | | | |
| | SEQUENCE DESCRIPTION: | | | | | |
| | GATCTTCGCT GATTNNNTCC | ATCAATNACC | CGGAGCATCC | ACTNACGCTA | GAGGAGTTGA | 60 |
| | ACGTAGTAGA GCAGGTGCGG | GTTCAGGTTA | GCGACCCCGA | GAGTACAGTG | GCTGTGGCTT | 120 |
| 15 | TCACACCAAC CATTCCGCAC | TGCAGCATGG | CCACCCTTAT | TGGTCTGTCC | ATCAAGGTCA | 180 |
| | AGCTTCTGCG CTCCCTTCCT | CAGCGTTNNN | NNGATGGACG | TGCACATTAC | TCCGGGGACC | 240 |
| | CATGCCTCAG AGCATGCAGT | GAACAAGCAN | CTTTGCAGNT | AAGGNGCGGG | TGGCAGCTGC | 300 |
| | CCTNGNGAGC AN | | | | • | 312 |
| | | • | | | | • |
| 20 | SEQ ID NO:6065 | | | | | |
| | SEQUENCE LENGTH: 108 | | | | | |
| | SEQUENCE TYPE:nucleic | acid | | | | |
| | TOPOLOGY: linear | | | | | |
| 25 | CLONE: HUMGS07201 | | | | | |
| | SEQUENCE DESCRIPTION: | | • | | | |
| | GATCAGTGCT CTTCAAGGTG | TCAAGATTAT | CAAAGACATA | AAAGANTGGN | TGANCTGCCA | 60 |
| | TAGATTGGNG GAGACAATGC | AATGTGAAAT | CCTGANTTTG | ACCCTGAN | | 108 |
| | | | | | | |
| 30 | SEQ ID NO:6066 | | | | | |
| | SEQUENCE LENGTH: 103 | | | | | |
| | SEQUENCE TYPE: nucleic | acid | | | | |
| | TOPOLOGY: linear | | · | | | |
| 35 | CLONE: HUMGS07202 | | | | | |
| | SEQUENCE DESCRIPTION: | | | | | |
| | GATCTTTAGT CCGAGTATGN | | | | ATACTATTTT | |
| | TNAGNCAACA AATTAAGGAA | CTTGAAAAGC | TAAAAANTCA | GAN | | 103 |
| 40 | CPO ID NO. COCO | | | | | |
| 40 | SEQ ID NO:6067 SEQUENCE LENGTH:127 | | | | | |
| | SEQUENCE TYPE: nucleic | :3 | | • | | |
| | TOPOLOGY: linear | aciu | | | | |
| | CLONE: HUMGS07204 | | | | | |
| 45 | SEQUENCE DESCRIPTION: | | • | | | |
| | GATCANNGAA ACTAAACATT | ልሮልሮሮሞቸሮቸው | CNCTTTWATT | TATCAACTCC | CACAGLATOR | 60 |
| | AACTTINCAC TGAATATCTT | | | | | |
| | TACAGNN | TOOM! TOWON | 1010010100 | O I I I I I I I I I I I I I I I I I I I | | 127 |

| 5 | SEQ ID NO:6068 SEQUENCE LENGTH:136 SEQUENCE TYPE:nucleic acid TOPOLOGY:linear CLONE:HUMGS07206 | |
|----|---|----------------|
| 10 | SEQUENCE DESCRIPTION: GATCTCCCAA GNAAGCACAA ATAGTTTTTT TCGCTAACTT AGTTATGAGT GAAGCCTCTG TNCACTTATA ACTNGCCAGT TTCATTGGTG GAATAAGTCC CCTTACTCAT GATTCANCAA 1 | |
| 15 | SEQ ID NO:6069 SEQUENCE LENGTH:108 SEQUENCE TYPE:nucleic acid TOPOLOGY:linear CLONE:HUMGS07209 SEQUENCE DESCRIPTION: | |
| 20 | GATCAGAGAA GGTTTTGTTT GTCCTTTTAA TCTTTACTTC TTTGAATTGT GAAAGTAATA | 60 08 |
| 25 | SEQ ID NO:6070 SEQUENCE LENGTH:120 SEQUENCE TYPE:nucleic acid TOPOLOGY:linear CLONE:HUMGS07210 SEQUENCE DESCRIPTION: | |
| 30 | GATCCGTGCT GTCCAATCCG GTAGCCACAC ACGGCTCTCG GGCACCGCAC AGTGGCTAGT CTGAAACCTG ACATGCTCTA AGTGTAAAAT ACATGGTGGA TTTTNAAGAC TTGAACCAAA 1 | 60 20 |
| 35 | SEQ ID NO:6071 SEQUENCE LENGTH:174 SEQUENCE TYPE:nucleic acid TOPOLOGY:linear CLONE:HUMGS07211 SEQUENCE DESCRIPTION: | |
| 40 | ACCEGECAGA AGCTEGECCT TCCCCCTCCN TTGGATEGEG TCAAGAGGCC ANGCCTEGNA 1 | 60 20 74 |
| 45 | SEQ ID NO:6072 SEQUENCE LENGTH:186 SEQUENCE TYPE:nucleic acid TOPOLOGY:linear CLONE:HUMGS07212 | |
| 50 | SEQUENCE DESCRIPTION: GATCTAGATA TNAGGTTTTT CTCCTTCATT CTCAGCTGTC GAAGAAATCA AAGTAGCATA | 60 |

| | TGCACAAGGT TAAAAACCAC CCTGCCTTTA TANAANNTGT CCTAAA | | | | | |
|----|--|------------|-------------|------------------|----------------|-----|
| 5 | | | | | | |
| | SEQ ID NO:6073 SEQUENCE LENGTH:229 SEQUENCE TYPE:nucleic TOPOLOGY:linear | acid | | | | |
| | CLONE: HUNGSO7213 SEQUENCE DESCRIPTION: | ATACCACATO | | ር ል ል ሮ ቅር ቅር ቅር | CC T TCTTT | 60 |
| | GATCTGAGAG ATGATACATG TNAGCAGAGG NCCCTCCAAC | | | | | • • |
| | ACCCTGGCAG GTTCTCAGAG | | | | | |
| 15 | CCCAGGCATG CAANTATACA | | | | CCIUUIAACC | 229 |
| | COORDONIA CARRIATACA | dicidinaca | nonddinin I | MATERIAL ZIV | | |
| | SEQ ID NO:6074 | | | | | |
| | SEQUENCE LENGTH:50 | | | | | |
| 20 | SEQUENCE TYPE:nucleic | acid | | | | |
| | TOPOLOGY: linear | | | | | |
| | CLONE: HUMGS 07214 | | | | | |
| | SEQUENCE DESCRIPTION: | • | | | | |
| 25 | GATCTTAAAA CTGAATAAAA | ATATTTAATA | AAACTTTGAA | AAATTTTAAA | | 50 |
| | | | | | | |
| | SEQ ID NO:6075 | | | | • | |
| | SEQUENCE LENGTH: 297 | | | | | |
| •• | SEQUENCE TYPE:nucleic | acid | | | | |
| 30 | TOPOLOGY: linear | | | | | |
| | CLONE: HUMGS07215 | | | | | |
| | SEQUENCE DESCRIPTION: | | | | 0000010111 | |
| | GATCCATTCT ATCCATCCGT | | | | | |
| 35 | GATAATAACA GTTGTTTTCT | | | | | |
| | AATAACTTGT AAAATGGCTT | | | | | |
| | NTNTTTTACA GAATGANAGG AGANGTCTGT ATGANANTCA | | | | | 297 |
| | AGANGICIGI AIGANANICA | GINCIINIGC | IUACACAAUN | ICCALLIGGI | NAVANAN | 231 |
| 40 | SEQ ID NO:6076 | | | | | |
| | SEQUENCE LENGTH: 191 | | | | | |
| | SEQUENCE TYPE:nucleic | acid | | | | |
| | TOPOLOGY: linear | 30.0 | | | | |
| | CLONE: HUMGS07216 | | | | | |
| 45 | SEQUENCE DESCRIPTION: | | | | | |
| | GATCCTCAAT CAGTGGGTGG | AGGATAACAG | GGTAGATTCA | CTTGTTTGCA | CTTNTACAGT | 60 |
| | TGTAGCTGCG AGTCCAGAAG | | | | | 120 |
| | GTTGTGGAGT ATCCCATTCT | | | • | | |
| 50 | AANTTANGAA A | | | | | 191 |

| | SEQ ID NO:6077 | |
|------------|---|-----------|
| | SEQUENCE LENGTH: 235 | |
| _ | SEQUENCE TYPE:nucleic acid | |
| 5 | TOPOLOGY: linear | |
| | CLONE: HUMGS07217 | |
| | SEQUENCE DESCRIPTION: | |
| | GATCCGAGCG TCGTGAACTC ACCTGAACTT TGGAAGGTTG GCACTGGGGG GCCGC | ATCCC 60 |
| 10 | CCTGGGAAAT NACTGAACGC GGGGTTTCAN TGGGTCCCGC CTGGGTCTAA GGACC | |
| | TCTTCTGTNA GCACGGGCAG TGGGAGGCCG GTGGAAAGGC GCAGGGGCCC ACCTAG | |
| | CTCACATCTT CAGGGGCGCA TTTCTACAAT AAAAACTCAC CCAATTAGAC CTAAA | |
| | SEQ ID NO:6078 | |
| 15 | SEQUENCE LENGTH: 181 | |
| | SEQUENCE TYPE: nucleic acid | |
| | TOPOLOGY:linear | |
| | CLONE: HUNGS07218 | |
| 20 | SEQUENCE DESCRIPTION: | |
| | GATCTATTGG ACCAAACCTT CTGCACACTC GGCCAGTTCC CTCTCCAATG TCCGGT | CGCCA 60 |
| | TCTTTCCTGA CCTTTGTTTC TTTCTGTTCA GGAACCATCA GTCCCCTTGT AATAAA | AGGTG 120 |
| | GTAGATTICA TIGAGGITIT AGATTGAAAC TITGAATAAA TCAAAAATAC TCATTG | TTAA 180 |
| | A | 181 |
| 25 | | |
| | SEQ ID NO:6079 | |
| | SEQUENCE LENGTH:54 | |
| | SEQUENCE TYPE: nucleic acid | |
| 30 | TOPOLOGY: linear | |
| | CLONE: HUNGS07219 | |
| | SEQUENCE DESCRIPTION: | |
| | GATCTATCAT TACAAAATNA ATTGAATAAT AAAATAGTTT GGTAGAAACT TAAA | 54 |
| 35 | SEQ ID NO:6080 | |
| | SEQUENCE LENGTH: 225 | |
| | SEQUENCE TYPE: nucleic acid | |
| | TOPOLOGY: linear | |
| 40 | CLONE: HUNGS07220 | |
| | SEQUENCE DESCRIPTION: | |
| | GATCCAGAGT TGAAGACCCT TCAGCTGGCT CTGCCTGCCA GTGCCACANA GTGCCA | TGGC 60 |
| | CCAGGAAGAC AGGTTTTNTT CCATCTAGGC CAGGCCATCC AGTGGCCATC CTCCGT | |
| | TCCCGCCTCC TCCTGGTGTG ACTTCTGAAA ACCAAGAATT TGTTCCTGTT GACTTI | TTCT 180 |
| 4 5 | GTGCTATGGA CCATTGTCCT CTCACCCACT CAATAAATCT TGAAA | 225 |
| | SEQ [D NO:6081 | |
| | SEQUENCE LENGTH: 291 | |
| | SEQUENCE TYPE: nucleic acid | |

| | TOPOLOGY:linear CLONE:HUMGS07221 |
|----|--|
| | SEQUENCE DESCRIPTION: |
| 5 | GATCTCTNCT AACNNTAGTA AATAAACACT AAAGTGGTGG GCTTTGATAA TGCATTTNGT 6 |
| | GGATACAAAA TCATCGNCTC ATCACTTTCT AGAATGAAAG GCTGGGAGGC ATTGCTCACC 12 |
| | TTTTGCGTGA AGAAAAGACC TGTCCCTTAG AGCCAGTTTT TNCTTAAGGG GAGGACAGAC 18 |
| | CGTCGTCACC CAGTGGACCN CGTTGGATGG NTGGATGCAG TNCATNCTTT AGAAGCACCG 24 |
| 10 | CATACCTGCT TGTTACAGGT NCAGNGTAAG TGGTCTTNGC TNCTGTGGGA N 29 |
| | SEQ ID NO:6082 |
| | SEQUENCE LENGTH: 107 |
| | SEQUENCE TYPE: nucleic acid |
| 15 | TOPOLOGY: linear |
| | CLONE: HUNGS07222 |
| | SEQUENCE DESCRIPTION: |
| | GATCINCCCT AGCCCTCINT TCCAGAAGAT GCCCTCCAAT CCTTTCCACC CNATTCCCTA 60 |
| | ACTIVINGGGA CCTCGTTTGG AAGTTTTCTG TGGGCTTGGC CTTGGTN 107 |
| 20 | |
| | SEQ ID NO:6083 |
| | SEQUENCE LENGTH: 173 |
| | SEQUENCE TYPE:nucleic acid |
| 25 | TOPOLOGY: linear |
| | CLONE: HUNGS07223 |
| | SEQUENCE DESCRIPTION: |
| | GATCTAGTTT TCCAAGTAAC ATTTTGTGGT GACAGAAGCC TAAAAAAAAG CTAAAATCAG 60 |
| 30 | GAAAGAAAAG GAAAAATACG ANTTGAAAAT TAAGGAAATG TTAGTAAANT AGATGAGTGT 120 |
| 30 | TÄANCTAGAT TGTNTTCATT NCTAGATAAN NTGTATAACG CTCTCTGTNC TAN 173 |
| | |
| | SEQ ID NO:6084 |
| | SEQUENCE LENGTH: 328 |
| 35 | SEQUENCE TYPE:nucleic acid |
| | TOPOLOGY: linear |
| | CLONE: HUMGS07224 |
| | SEQUENCE DESCRIPTION: |
| 40 | GATCACCTGC GTGTCCCATC TACAGACCTG CGGCTTCATA AAACTNCTNA TTTCTCTTCA 60 GCTTTGAAAA GGGTTACCCT GGGCACTGGC CTAGAGCCTC ACCTCCTAAT AGACTTAGCC 120 |
| | CCATGAGTTT GCCATGTTGA GCAGGACTAT TTCTGGCACT TGCAAGTCCC ATGATTTCTT 180 |
| | CGGTAATTCT GAGGGTGGGG GGAGGGACAT GAAATCATCT TAGCTTAGCT |
| | GAAATGTCTA TATAGTGTAT TGTGTGTTTT AACAAATGNT TTACACTGAC TGTTGCTGTA 300 |
| | LLAGUELLEN BOOKLELLEN BOOKLELLEN BOOKLE |
| 45 | AAAUNGAATN TUUGAATAAA GTTATTTN 328 |
| | SEQ ID NO:6085 |
| | SEQUENCE LENGTH: 156 |
| | SEQUENCE TYPE:nucleic acid |
| 50 | TOPOLOGY: linear |

| | CLONE: HUMGS07225 | | | | | |
|----|------------------------|------------|------------|------------|------------|-----|
| | SEQUENCE DESCRIPTION: | | • | | | |
| _ | GATCTCAGCT ATTTAAATAC | | | | | |
| 5 | ATTAANTNNN TAAAAAATTT | | | TAACTAGACC | AATAGTAAAA | |
| | TNCAGGTGTA TCTTANTTCC | CTGANGTCCT | CATTTN | | | 156 |
| | SEQ ID NO:6086 | | • | | | |
| 10 | SEQUENCE LENGTH: 276 | | | | | |
| | SEQUENCE TYPE: nucleic | acid | | | | |
| | TOPOLOGY: linear | | | | | |
| | CLONE: HUNGS07226 | | | | | |
| | SEQUENCE DESCRIPTION: | | | | | |
| 15 | GATCCTGGGC TGCTGGTGCT | | | | | |
| | GAGCATCGTG GGGGATGGGG | | | | | |
| | GGGACCGTGC GTGGAGAGAA | | | | | |
| | CTGAGCCAGG ATTCAAGGNT | | | GCCAANNGGC | GCTMGMAGGG | |
| 20 | GNAAANCCAT ACGGTTGCGC | INNIGICIGA | GAGGAN . | | | 276 |
| | SEQ ID NO:6087 | | | | | |
| | SEQUENCE LENGTH: 151 | | | | | |
| | SEQUENCE TYPE: nucleic | acid | | | | |
| 25 | TOPOLOGY: linear | 4014 | • | | | |
| 20 | CLONE: HUMGS07227 | | | | | |
| | SEQUENCE DESCRIPTION: | | | | | |
| | GATCTTGCCA CATCTGGCAC | GGAGACGACA | CAGTAATNCT | GAAAAAGCCT | CTATGTAGTC | 60 |
| | CTGTTAGTNT CTTAAAGAAC | CTAAAAGCTN | GGACCAGTAA | AATCCACAGA | AATTCACTCT | 120 |
| 30 | TGCCTTTAAG AACTTTTGAA | AACTGTTTAA | A | | | 151 |
| | SEQ ID NO:6088 | | | • | | |
| | SEQUENCE LENGTH: 373 | | | | | |
| 35 | SEQUENCE TYPE: nucleic | acid | | | | |
| 33 | TOPOLOGY: linear | | | | | |
| | CLONE: HUNGS07228 | | | • | | |
| | SEQUENCE DESCRIPTION: | | | | | |
| | GATCCAATGG ATTTAAACAG | AAGCNCTTTG | CCAGGCTTGC | CAGCAAGAAG | GCAGTGGAGG | 60 |
| 40 | AACTTGCCTA CAAATGGAGT | GTTGAGGATA | TGTAACTTTC | CTNAGGCTGT | GGGGGTGGCT | 120 |
| | GGNCTGTGGT AGTGGGCATA | GGCAGCGAGA | TATCCAGTGG | TAACAGTTGT | CTGTGCTAAT | 180 |
| | AATTGGAGCC CACACAGNCC | AGCAGCTTGT | TGAATGCCAG | TTTTGACCAC | AGAAGGTTTA | 240 |
| | TTCGAGGCCT NATGTTTGGA | | | | , | |
| 45 | TGTTGCTGGN TTTCAGAGGG | AGCGTTGATT | TCTCNTTGAC | CAGGGNTTNT | TCTTTGGTTA | |
| • | GGGTGTTTCT TCN | | | | | 373 |
| | SEQ ID NO:6089 | | | • | | |
| | SEQUENCE LENGTH: 174 | | | | | |
| 50 | SEQUENCE TYPE:nucleic | acid | | | | |

| | TOPOLOGY:linear CLONE:HUMGS07229 | | | | | |
|----|--|----------------|----------------|-------------|------------|-----|
| 5 | SEQUENCE DESCRIPTION: GATCAGNAGA GGCCANGCTC | CNCCCCACCC | CAAACAGCAT | GAACTTCCCA | AGGCTCCATC | 60 |
| | CCTTTCTCCC AGTGCACAGG | | | | | |
| | GTCTCAGTTC TATTTAACCA | | | | | 174 |
| | | | | | ** | |
| 10 | SEQ ID NO:6090 | | | | | |
| 10 | SEQUENCE LENGTH: 142 | | | | | • |
| | SEQUENCE TYPE:nucleic | acid | | | | |
| | TOPOLOGY: linear | | | | | |
| | CLONE: HUMGS07230 | | | | | |
| 15 | SEQUENCE DESCRIPTION: | | | | | |
| | GATCTCAGAT TTTTTTTGAA | | | | • | |
| | TGTGTGACTT AGTAGATAAA | ATACTGCCTT | CTGCCTTTGG | GACCATGATT | AAAAACAAAG | |
| | ACAAAAACCA AAAGTCATTA | AA | | | | 142 |
| 20 | 470 ID NO 4001 | | | | | |
| | SEQ ID NO:6091 | | | | | |
| | SEQUENCE LENGTH: 139 SEQUENCE TYPE: nucleic | :- | | | • | |
| | TOPOLOGY: linear | acru | | | | |
| 05 | CLONE: HUMGS07231 | | | | | |
| 25 | SEQUENCE DESCRIPTION: | | | • | | |
| | GATCACTGGA CATCAAAGAT | TCATTGCACT | TATGAACAAG | GAACCTTCTT | TTCAATTTCT | 60 |
| | GTGTAATTTG CAAGGCTGTA | | | | | |
| | AAATGTTTAC AANTATAAA | 0.01101010 | 14.11.00.11.00 | 0111110/101 | | 139 |
| 30 | | | | | | |
| | SEQ ID NO:6092 | | | | | |
| | SEQUENCE LENGTH: 230 | | | | | |
| | SEQUENCE TYPE:nucleic | acid | | | | |
| 35 | TOPOLOGY: linear | | | | | |
| | CLONE: HUMGS07232 | | | | | |
| | SEQUENCE DESCRIPTION: | | | | | |
| | GATCTATAAA TCAAGAAAAT | CCATTGTCAT | AACCATTTTT | AAAAGTCAAA | AATTAAGACA | 60 |
| | TCCTTAATTA AAANGTTTCA | AATCTAGACA | CTAAATGTGT | GTGANTGTAC | AAAGAAAACA | 120 |
| 40 | ANCCATTGCT TATNCTGTTA | TATACTAGTG | NNCCTTTTAN | TTTTGCTTGC | TGTTTTAAAC | |
| | TTGGACAGTT TGAGGACTTT | NGTTGGANCT | TCGTATTGTA | NGANCTGTTN | | 230 |
| | SEQ ID NO:6093 | | | | | |
| | SEQUENCE LENGTH: 103 | | | | | |
| 45 | SEQUENCE TYPE: nucleic | acid | | | | |
| | TOPOLOGY: linear | 4014 | | | | |
| | CLONE: HUMGS07235 | | • | | | |
| | SEQUENCE DESCRIPTION: | | | | | |
| 50 | CATCACCAC TATTCONCTC | OT 1 TTO 1 TTO | CTCC TTCCT | ******** | AAACCCACCC | 60 |

| | TTNCTNCACT AACAGCAGCT | GGGAAAGANG | TTATGCTTGT | TGN | • | 103 |
|----|--|--------------------------|--------------------------|--------------------------|--------------------------|------------|
| 5 | SEQ ID NO:6094 SEQUENCE LENGTH:246 SEQUENCE TYPE:nucleic TOPOLOGY:linear CLONE:HUMGS07238 | acid | | | | |
| 15 | SEQUENCE DESCRIPTION: GATCCCAAGG ACCTGGAGCC CGGACAGAGA AGCCCAAGAT GACCCAGCAA TTGAGGTGTG GACCTTGTGG GACTGGGNCC CNTTTN | GAAGCAGGAG ATGGCGGCCC | GAGCAGCTGC CACCCCAACT | AGCGGCAGGG ACCACCTCTT | CCGGGGCTCA TTCAGGCACA | 120 180 |
| 20 | SEQ ID NO:6095 SEQUENCE LENGTH:158 SEQUENCE TYPE:nucleic TOPOLOGY:linear CLONE:HUMGS07241 SEQUENCE DESCRIPTION: | acid | · | | | |
| 25 | GATCCACCAG CCTCAGCCTC AAAAAGAAAA ACATGGNTGT CACANCTCAA NGGTGCAACT | AAAGAAAGTA | AAGCTTCGTT | | | |
| 30 | SEQ ID NO:6096 SEQUENCE LENGTH:112 SEQUENCE TYPE:nucleic TOPOLOGY:linear CLONE:HUMGS07243 SEQUENCE DESCRIPTION: | acid | | · | | |
| 35 | GATCTGTGAC ACTNACATGG TCTGGGTCCA TTTGCACTAG | | | | | 60 112 |
| 40 | SEQ ID NO:6097 SEQUENCE LENGTH:81 SEQUENCE TYPE:nucleic TOPOLOGY:linear CLONE:HUMGS07244 SEQUENCE DESCRIPTION: | acid | | | | |
| 45 | GATCCCAAAC NACTCACTCC AGAGCGAGAC CCTGCCTCAA | | ACTTTGCCAC | TTAACTCCAG | TGTGGATGAC | 60 81 |
| 50 | SEQ ID NO:6098 SEQUENCE LENGTH:104 SEQUENCE TYPE:nucleic | aaid | | | | • |
| 55 | DESCRIPTION TILETING | ac i u | | | | |

| | TOPOLOGY:linear CLONE:HUNGSO7245 SEQUENCE DESCRIPTION: | |
|----|---|---|
| 5 | GATCAACCTC AACACCTGGC NTCTCANGCC TATATACCGA CATATNCAGC AAACCCTNAT & GNAGGCTACA AAGTACGCGC AAGTACCCAC GTAACTGACG ITAN . 10 | |
| | SEQ ID NO:6099 SEQUENCE LENGTH:54 | |
| 10 | SEQUENCE TYPE:nucleic acid | |
| | TOPOLOGY:linear CLONE:HUMGSO7246 | |
| | SEQUENCE DESCRIPTION: | |
| 15 | CATOMORPOO AAATAMAA | 4 |
| | SEQ ID NO:6100 | |
| | SEQUENCE LENGTH: 133 | |
| 20 | SEQUENCE TYPE:nucleic acid TOPOLOGY:linear | |
| | CLONE: HUMGS07249 | |
| | SEQUENCE DESCRIPTION: | |
| | GATCTAAATA TGAAAAGTAT GTCCTGCTGA ATTTTCCTGT GNATTGGTGA GCGGACAGAC 6 |) |
| 25 | TACCTGTAAA CCATGACCTC CTTGCCAAAC GTTAGTTTTA TNAGNTCACT NGTAACCTTT 120 | |
| | GAGAATNNTC TGN 133 | 3 |
| | SEQ ID NO:6101 | |
| 30 | SEQUENCE LENGTH: 104 | |
| | SEQUENCE TYPE:nucleic acid TOPOLOGY:linear | |
| | CLONE: HUMGS07250 | |
| | SEQUENCE DESCRIPTION: | |
| 35 | GATCGINCCA CINACCICCA GCCTGGGGGN NAGAGCAAGA CCGTGICTCA AAAACAATIN 60 |) |
| | AGTCTGAAAC ACAATTGTCC TGAATCTGTC TGACTATAAC TCTN 104 | ŀ |
| | SEQ ID NO:6102 | |
| 40 | SEQUENCE LENGTH: 126 | |
| 40 | SEQUENCE TYPE:nucleic acid TOPOLOGY:linear | |
| | CLONE: HUMGS07251 | |
| | SEQUENCE DESCRIPTION: | |
| 45 | GATCTCAAAA AAGAAGGAAT TTCTCCTNTN TNTCTTGCAG ITAATGTAAG ANTACTTTAA 60 | , |
| 45 | ATCTCTAANC TTCTGAAGTG TTAGAGGTAG AGATGGTCTA GTAAAGATGT GGTAGTAATG 120 | i |
| | TNTTAN 126 | |
| | SEQ ID NO:6103 | |
| 50 | SEQUENCE LENGTH: 179 | |

| | SEQUENCE TYPE:nucleic TOPOLOGY:linear | acid | | • | | - |
|----|--|------------|------------|------------|------------|-----|
| 5 | CLONE:HUMGS07253 SEQUENCE DESCRIPTION: GATCAAGCCA TCGGAGCTGC | TAGAGTTCTG | TCTGGACTTT | CCAGAGACCA | AGTNTTCCCT | 60 |
| | TTTGCTGCCT CTAAAAGGCC GACAAGCTTT NTTTTTTTN | | | | | |
| 10 | SEQ ID NO:6104 SEQUENCE LENGTH:293 | | | | | |
| | SEQUENCE TYPE:nucleic TOPOLOGY:linear | acid | | | | |
| 15 | CLONE: HUMGS07257 | • | | | | |
| | SEQUENCE DESCRIPTION: GATCAAATTT CANTGGCTTT | • | | | | |
| | TGTNAGACCA GGTCTACCTT | | | | | |
| 20 | TCACAGTAGT GGGTGGGCCT | | | | | |
| | TGGAACTACA AGACCCCCGG | | | | | |
| | TCACGGGGNG TGGAGGGNNG | CCGGGAGNCT | TNCNTGGITG | TINCNTITIT | TGN | 293 |
| | SEQ ID NO:6105 | | | | | |
| 25 | SEQUENCE LENGTH: 110 | | | | | |
| | SEQUENCE TYPE: nucleic | acid | | | | |
| | TOPOLOGY:linear | | | | | |
| • | CLONE: HUMGS07259 | | | | | |
| 30 | SEQUENCE DESCRIPTION: | | | | 500V00.05V | •• |
| | GATCCCGTNC GGCGCGCTGC | | | | TCCNGGAGTN | |
| | CGCTGAGGAG CAGCTGCAAG | CCGACCANGT | NTTCATTTAC | TTCCACAAGN | | 110 |
| | SEQ ID NO:6106 | | | | | |
| 35 | SEQUENCE LENGTH: 183 | | | | | |
| | SEQUENCE TYPE: nucleic | acid | | | | |
| | TOPOLOGY: linear | | | | | |
| | CLONE: HUMGS07261 | | | | | |
| 40 | SEQUENCE DESCRIPTION: | | | | | |
| 40 | GATCTAGTAC TCCTTGATGA | | | | | |
| | CCTCANGANT TACTATAATG | | | | | |
| | TGAAAACTG ACTTTNGTAT | AGTATAAAAC | ACAGGCTTTC | ACAANTITTG | GTNTNGCTGG | |
| | NTN | | | | | 183 |
| 45 | SEQ ID NO:6107 | | | | | |
| | SEQUENCE LENGTH: 135 | | | | | |
| | SEQUENCE TYPE:nucleic | acid | | | | |
| | TOPOLOGY: linear | 201W | | | | |
| 50 | CLONE: HUNGS07263 | | | | | |

| 5 | SEQUENCE DESCRIPTION: GATCCTGANG ATGATGATGA NATTTGACAT NAATAAGTAA ACATTGAATA ATNTN | | | | | |
|-----------|--|--------------------------|--------------------------|------------|------------|------------------|
| 10 | SEQ ID NO:6108 SEQUENCE LENGTH:173 SEQUENCE TYPE:nucleic TOPOLOGY:linear CLONE:HUMGS07264 | acid | | | | |
| 15 | SEQUENCE DESCRIPTION: GATCCTTTCC AGTTTAAGCA CTAAAGCACC AGAGCTCGGA AAAAATAAGA GTCAGAAATA | GANTTCCAGG | GAAGCCAGAT | ACCGAGGCGC | AAATTTTTTA | |
| 20 | SEQ ID NO:6109 SEQUENCE LENGTH:152 SEQUENCE TYPE:nucleic TOPOLOGY:linear CLONE:HUMGS07265 | acid | | | | |
| 25 | SEQUENCE DESCRIPTION: GATCAATTGA AATCAACTGT AATGTTAACT TATTGCTTTG CTTTGAGACA GTAAAATTAT | TATCTNGGGA | AAAAAACTTT | | | 60 120 152 |
| 30 | SEQ ID NO:6110 SEQUENCE LENGTH:337 SEQUENCE TYPE:nucleic TOPOLOGY:linear | acid | | | | |
| 35 | CLONE:HUMGS07266 SEQUENCE DESCRIPTION: GATCTGCTCA CCTCGGCCTC GAGACACTGT GACCCGGGAC TATTTATAAG AATGAAGTAG | GATTTTCAAT | CACAGTTTTT | TGNTACGAGT | GGAAAATGCG | |
| 40 | CCAAGGTTGG TACCTGTTAA CCACACTTNG AAGAAGAAGA ATACCTGGTG NGCTGAAANA | TGTGTATATC ATCGNCTTGG | AGGGATGTGC GCCACGGATA | AATCTTTTGG | CCTNCCTGTG | 240 |
| 45 | SEQ ID NO:6111 SEQUENCE LENGTH:76 SEQUENCE TYPE:nucleic TOPOLOGY:linear CLONE:HUMGS07267 | acid | | | | • |
| 50 | SEQUENCE DESCRIPTION: GATCCTGTTA ATNAAACCAC | AGACACCATA | TATCCTTCTG | CATCCTTTGG | CCAATAAAAG | 60 |

| | TTGCTGGAGA ACCAAA | | 76 |
|-----|---|----------------------------|---------------------|
| 5 . | SEQ ID NO:6112 SEQUENCE LENGTH:176 SEQUENCE TYPE:nucleic acid TOPOLOGY:linear | | |
| 10 | CLONE:HUMGS07268 SEQUENCE DESCRIPTION: GATCAAGGAG AGTCACAGCC TTATT. CCTACTTGAT NTTCCATAAC AAAGC' TAATCATATT CGTAATTTCA AANGT' | GATT TAAGCAAACT GCATTTTTTC | NCAGGAGAAA 120 |
| 15 | SEQ ID NO:6113 SEQUENCE LENGTH:63 SEQUENCE TYPE:nucleic acid TOPOLOGY:linear | | |
| 20 | CLONE:HUMGS07269 SEQUENCE DESCRIPTION: GATCGACACG TGGGGGCGCC TGAGCGAAA | AAGA TAACCGTAAT AAATAGTAAC | CTAACGGTCC 60 |
| 25 | SEQ ID NO:6114 SEQUENCE LENGTH:73 SEQUENCE TYPE:nucleic acid TOPOLOGY:linear CLONE:HUMGS07270 | | |
| 30 | SEQUENCE DESCRIPTION: GATCAGNCCT CGCGCAGTGG CTCAAC ACCTTGTCTT AAA | GCTG TAATCTCAGC ATTTTGGGAG | NCCGAGTGAG 60 73 |
| 35 | SEQ ID NO:6115 SEQUENCE LENGTH:243 SEQUENCE TYPE:nucleic acid TOPOLOGY:linear CLONE:HUMGS07272 | | |
| 40 | SEQUENCE DESCRIPTION: GATCITAAAT ATTCTAAAGT TIGTAT ATCCTCTTTT CCTCCTTTTT GTTTGT | | |
| 45 | TTTATTTATG TAATAAAAAT ATATGT ATGATAANTA TTAGCAAGTT GCATAC TGN | GAAA TAAAGTGTTA CTGGTAAAGG | ACTTGTAAAC 180 |
| | SEQ ID NO:6116 SEQUENCE LENGTH:199 | | |
| 50 | SPOURNCE TYPE: much sic soid | | |

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|----|--|
| 5 | TOPOLOGY:linear CLONE:HUMGS07274 SEQUENCE DESCRIPTION: GATCAGAAGT TCAAGGGACC GTGAAAGCCC TCAGAGTCAG CACCTAGTTT CAGACCAAGC ACCCTTTCGA ATCCCTGGAT GGCTGAGGGG GCTGAGGCCG GCTCTGACTG GGCAGCTCAG 12 CNCCTCCCCC AGAGCCCAGG GTCTTGCACA CCCCTNCCTG TAACCAAGGA ACACTCTGAA 18 |
| | ATAAAGGTGA ATGGCTAAA |
| 10 | SEQ ID NO:6117 SEQUENCE LENGTH:283 SEQUENCE TYPE:nucleic acid TOPOLOGY:linear |
| 15 | CLONE:HUMGS07275 SEQUENCE DESCRIPTION: GATCAAAATA CTAATAAATT ACTCACAGAC TCAGTGTATT TTTNCTTGGA GTAAAAGTCC 6 |
| | AGGATGGGTA ATAGAATACC TGCTGTTGGC TTTTGGAAAA ATTGGTACTG TATGTAGCAA 12 |
| | AATAATGTGA AACCCATATG CATGGATATT CTTAACAATT TGAAGAAATC GTCACAGCTT 18 |
| 20 | TCCTGGGTTG TTGAGCCTCT AAGATGGTCT TTTCCTCTGA TGTGATAATA AAGTGTTTAT 24 |
| | TCTGANCTCT AAAAAAAANN NANNGNGGNG NNTGNNGTGG NGN 28 |
| | SEQ ID NO:6118 |
| | SEQUENCE LENGTH: 317 |
| 25 | SEQUENCE TYPE:nucleic acid |
| | TOPOLOGY: linear |
| | CLONE: HUNGS07276 |
| | SEQUENCE DESCRIPTION: |
| 30 | GATCACAGTT TTACAAATCT TAGTTTTAAA TAAATTATTT CAGTGTGCTG TTAGTCCTCT 60 |
| | ACAGTCATTT TGGTTTAAAA AGTGACTATT TATTTATGGT AGNATATCAA TAATTTATTA 120 |
| | ATGTTAAAAA ATACTGTGTA TGACATTACA AACCAGANCA GTTCCTGGGG GAGAGGNTTC 180 |
| | THATTGATTG GCAGTTCTGA GAGGGCAAGA NGANTGGNAC TTTATNCTTC AAAAGGNGGT 240 |
| 35 | TTTGGTTTTN CCAGGTACTG CTTATGTNAA TCGTTTATTT TTNTTTCATC AAAGCCTGGC 300 |
| 33 | ANGTHTATGC NTTCCAN 317 |
| | SEQ ID NO:6119 |
| | SEQUENCE LENGTH: 360 |
| 40 | SEQUENCE TYPE:nucleic acid |
| | TOPOLOGY: linear |
| | CLONE: HUNGS07277 |
| | SEQUENCE DESCRIPTION: |
| | GATCGACGAG CTGCTGCAGG AGTTCGAGGA GAAGAGTGGC CGCACCTTTC TGCACACCGT 60 |
| 45 | CTGCTTCTAC TGAGCCCAGC GCCCGCATGG AGCCGCCTCT GGAGCTTCCT GTTGTTCATA 120 |
| | CTTTTTCCTT CCTGACATTT GTTTTTACTT ACAGGTGTTC TGCTGGTGAC GGTAGCATTA 180 |
| | CCCAAATAAA CTGTGCATAT GAAATGGGAG AGGAGATGCC AAAACGCCAG ATGAAAGCAA 240 |
| | TCAAGTTTCT TCTTTTCCAC TTTTACTTAT GAGCGGGATA TTGATTACAN GGNNTTTCTT 300 |
| 50 | CTTTAACCAA AAAGGAAAGA CANCGGTTTG TGTGCACTTC CCGNCATACC TGTGTCTTTN 360 |
| | |

| 5 | SEQ ID NO:6120 SEQUENCE LENGTH:292 SEQUENCE TYPE:nucleic acid TOPOLOGY:linear CLONE:HUMGS07278 | |
|----|---|----------------|
| 10 | SEQUENCE DESCRIPTION: GATCGGGAAG ACTGAGTAGG GAAGGCAGGG CTGCCNAGAA GTCTCANAGG CACCTCACGC CAGCCATCGC GGAGAGCTCA GAGGGCCGTC CCCACCCTGC CTCCTCCCTG CTGCTTTGCA 1 TTCACTTCCT TGGCCAGAGT CAGGGGACAG GGAGAGAGCT CCACACTGTA ACCACTGGGT 1 CTGGGNTCCA TCCTGCGCCC AAAGACATCC ACCCAGACCT CATTATTTCT TGCTCTATCA 2 TTCTGTTTCA NTAAAGACAT TTGGAATAAA CGNGCATATC ATAGCCTGGA AA 2 | 120 180 |
| 15 | SEQ ID NO:6121 SEQUENCE LENGTH:30 SEQUENCE TYPE:nucleic acid | |
| 20 | TOPOLOGY:linear CLONE:HUMGS07279 SEQUENCE DESCRIPTION: GATCCAATAA ATNTCCTTTT TTTGCTTAAA | 30 |
| 25 | SEQ ID NO:6122 SEQUENCE LENGTH:149 SEQUENCE TYPE:nucleic acid TOPOLOGY:linear | |
| 30 | CLONE:HUNGSO7280 SEQUENCE DESCRIPTION: GATCGGGAGA GGGAGGAGAG GCAGTCTCTT GACAAAATAA AGTATTTTTA TTCATTTGTG 6 TTTATTAAAT GAAAAANCAA TCCCATGGTG TCCCTGTTGT GTGGTGGACC TAATGNCTGT 12 TGAAATAAAG TTCTGTGTTT TCCCTGAAA 14 | 60 20 49 |
| 35 | SEQ ID NO:6123 SEQUENCE LENGTH:216 SEQUENCE TYPE:nucleic acid TOPOLOGY:linear | |
| 40 | CCCACTGAAT TTTGTAACTT GCTGTGTTTG CATCCTCTGT TCCTATTCTG CCCTTGCTCT 12 | i0 |
| 45 | GTGTCATCTC AGTCATTTGA CTTAGAAAGT GCCCTTCAAA AGGGGCCTGT TCACTGCTGC 18 ACTTTTCAAT GAATTAAAAT TTATTTCTGT NCTAAA 21 | |
| | SEQ ID NO:6124 SEQUENCE LENGTH:205 SEQUENCE TYPE:nucleic acid | |

| | TOPOLOGY:linear CLONE:HUMGS07282 | | • | | | |
|------|--|------------------|------------|------------|------------|-----|
| 5 | SEQUENCE DESCRIPTION: GATCTCATCA ACCCTTTGAA | ATGTTCTGGG | CAGCACAGCT | CCTTCCTCTC | CATGGTTGGT | 60 |
| | GTAAGTATAA TCANGTAGTG | | | | | |
| | CGTATGTGCA GAATTTGCTA | | | | | |
| | AAANNANAAA NGNAGGAGGN | | IIUAAIAAA | ACCIAIIUAA | AAAUCIUAAA | 205 |
| | THE CONTROL OF THE CO | undun | | | | 200 |
| 10 | SEQ ID NO:6125 | | | | | |
| | SEQUENCE LENGTH: 279 | | | | | |
| | SEQUENCE TYPE:nucleic | acid | | | • | |
| | TOPOLOGY: linear | | | | | |
| 15 . | CLONE: HUMGS07283 | | • | | | |
| | SEQUENCE DESCRIPTION: | | | | | |
| | GATCTTTGCC AGGGGTCAAA | GCGTCGGGAA | GCTTGGGGTC | CTTCATCCTG | ACGTTATCAC | 60 |
| | CAAATTTNAG CTGACCATGC | | | | | |
| | AAGATTGGTC TCTGTGGTGT | | | | | |
| 20 | CTTAAGTCCT CCTCCACAGG | | | | | |
| • | CACTGGNAAA AAAAGAAANN | | | | | 279 |
| | . / / | | | | • | |
| | SEQ ID NO:6126 | | | | | |
| 25 | SEQUENCE LENGTH: 226 | | | | | |
| | SEQUENCE TYPE:nucleic | acid | | | | |
| | TOPOLOGY: linear | | | | | |
| | CLONE: HUNGS 07284 | | | | | |
| | SEQUENCE DESCRIPTION: | | | | | |
| 30 | GATCCTAAGG AACATAAAGT | TAATTAAAA | CTTACACCTA | ATTATGTAAA | TNGCCTTGTT | 60 |
| | AAAGACATGT GATTTGTATT | TNAGATGCTT | GTTTCCTATT | AAAATACAGA | CATTTCTACC | 120 |
| | CTCAGTTTCT AAATGTAGAC | TATTTGTTGG | CTAGTACTTG | ATAGATTCCT | TGTAAGANAA | 180 |
| | ANTGCTGGGT AATGTNCCTG | GTAACANGCC | TGTNANTATN | TNANGN | | 226 |
| 35 | | | | | | |
| | SEQ ID NO:6127 | | | | • | |
| | SEQUENCE LENGTH: 339 | | | | | |
| | SEQUENCE TYPE:nucleic | acid | | | | |
| 40 | TOPOLOGY:linear | | | | | |
| •0 | CLONE: HUNGS 07285 | | | | | |
| | SEQUENCE DESCRIPTION: | _ | | | | |
| | GATCCCATTT AGCCCCTGAA | | | | | |
| | TCAGGGGGAT AATCTAGAGG | | | | | |
| 15 | GCTCACTTCA ATAACTATTT | | | | | |
| | GCTTTNTTCA GTTATCACAT | _ | | | | |
| | CTCTACTGCG TGGNTGGTTA | | | TGCTCNGGAA | ATGNTCNGGA | |
| | CATNCCNTTT NCCATTIGTG | TGTCAGTGCG | TATGGTNAN | | | 339 |

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SEQ ID NO:6128

| 5 | SEQUENCE LENGTH: 269 SEQUENCE TYPE: nucleic TOPOLOGY: linear CLONE: HUMGS07286 SEQUENCE DESCRIPTION: | | | | | |
|----|--|------------|------------|---|------------|-----|
| | GATCTCCTAG GACCTAGTGG | ACATCTGGNA | TTAATTTAAT | CTCAGGAAAA | ACAAGANATN | 60 |
| | AACCCAGAGA GAGTCTGGGT | TCTGGAATTC | AGCGTANTAC | CTCCAGACCG | TGGTGTCTGG | 120 |
| 10 | CCTCCATTTT TGTCTGTNAT | | | | | |
| | CACCTGGGTA GAAGGGTGGA | TGGGCTTCAC | ATCAAATTTT | TTNCTTCCTT | TAGGGTGGGG | 240 |
| | NATTGGNTTG GCTNTNTTTT | GTNGTGGNN | • | | | 269 |
| | SEQ ID NO:6129 | | | | • | |
| 15 | SEQUENCE LENGTH: 47 | | | | | • |
| | SEQUENCE TYPE:nucleic | acid | | | | |
| | TOPOLOGY: linear | | | • | | |
| | CLONE: HUMGS07287 | | | | | |
| | SEQUENCE DESCRIPTION: | | | | | |
| 20 | GATCTGTCCT CCAAATCCTC | TATTAAACCT | GATAGCTTGA | GCACAAA | | 47 |
| | SEQ ID NO:6130 | | | | | |
| | SEQUENCE LENGTH: 330 | | | • | | |
| 25 | SEQUENCE TYPE:nucleic | acid | | | | |
| 20 | TOPOLOGY: linear | | | | | |
| | CLONE: HUMGS07288 | | | | | |
| | SEQUENCE DESCRIPTION: | | | | | |
| | GATCAGCCCT TCTCAGCCTC | CCAAAGTGCT | GGGATTACAG | NTGTGAGCCA | CTGTGCCCGG | 60 |
| 30 | TTCTGTGGCC TTTTCTAACA | | | | | |
| | GATTGGGAAA GTTCAATTTT | | | | | |
| | ACCTNAAGGG CAGAGGCTGA | | | | | |
| | AAGCTCTCTT TTGCTTTATT | | | | | |
| 35 | TCTCTGNCAT GGGCAACCAT | | | *************************************** | | 330 |
| 30 | | | | | | |
| | SEQ ID NO:6131 | | | | | |
| | SEQUENCE LENGTH: 333 | | | • | | |
| | SEQUENCE TYPE:nucleic | acid . | | | | |
| 40 | TOPOLOGY: linear | | | | | |
| | CLONE: HUNGS07289 | | | | | |
| | SEQUENCE DESCRIPTION: | | | | | |
| | GATCTTACAT GAGCATAATC | ATCCTTATAC | TTCATGAGGG | GATTATNAGT | ACAATCCCCA | 60 |
| 45 | TTTTACTGTG TTTGAGTTAA | AAACCAAACA | TCCCTGTAAT | TTAATTTGAA | GATTCTTTAA | 120 |
| | CAGATTGCAG CAAAGTTCAT | TATAAAACTG | TTATGGTGTC | TTCAAAGNCT | TGATAAAANT | 180 |
| | AACACTGNGA GAGANTTGGT | CCATTTGTAT | GCTGTATTTC | TATTACTTGC | CAAANGGAAT | 240 |
| | GGGGNTAGGA TTAACCTTGT | TTCCATTCTC | TTCNCATGGG | TATCCATCCC | CATGTTTANC | 300 |
| | TGNCCACNCT GGGGGGCTCN | GTTGTGTGCT | GTN | | | 333 |